

BELZONA PROTECTS SWITCH GEAR BOXES AT A WIND FARM

CUSTOMER

Wind Farm, TX

APPLICATION DATE

2021

APPLICATION SITUATION

Switch boxes at the base of turbine columns.

PROBLEM

Damage on the metallic surface caused by corrosion from the salt environment. If neglected, wall thickness deteriorates and the asset integrity becomes compromised.

PRODUCTS

Belzona 3921 (GSC Surface Conditioner)

Belzona 5111 (Ceramic Cladding)

SUBSTRATE

Metal

APPLICATION METHOD

The location of the switch gear boxes made it easy to prep and apply coatings. Abrasive blasting was not allowed. Orbital sanders were used to acquire a surface required to apply coatings. First, the Switch Gear Boxes were coated with Belzona 3921 Conditioner that is zinc rich and also acts as a corrosion inhibitor. Then, Belzona 5111 was then applied for the finish UV protection and final environmental protection. The application was carried out in accordance with the Belzona System Leaflet CEP-4 and Instructions for Use.

BELZONA FACTS

These units were corroding at a fast pace. In 3 years of service, evidence of through-wall had already become apparent and asset replacement was becoming a consideration. The customer tried other coatings to offset corrosion, but they fared no better than the original coating. Then Belzona 5111 and Belzona 3921 system was given an opportunity. After testing for one year, customer was happy with no visible signs of corrosion! A company decision was made to coat all the Switch Gear Boxes with Belzona. Spend a little now, save a lot later!

PICTURES

1. The surface is cleaned and manually prepared.
2. Belzona 3921 Conditioner is applied.
3. Belzona 5111 is applied and the applications is complete.



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

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