

# Belzona Protects Switch Gear Boxes at a Wind Farm

ID: 8770

Industry: Power  
Application: CEP-Centrifugal Pumps  
Substrate: Metal  
Products: \* Belzona 3921 (GSC Surface Conditioner) ,  
\* Belzona 5111 (Ceramic Cladding) ,

Customer Location: Wind Farm, TX  
Application Date: 2021

## Problem

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



## Photograph Descriptions

- \* The surface is cleaned and manually prepared. ,
- \* Belzona 3921 Conditioner is applied. ,
- \* Belzona 5111 is applied and the applications is complete. ,

## Application Situation

Switch boxes at the base of turbine columns.

## 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 provided 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.

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

Belzona products are  
manufactured under an ISO  
9000 Registered Quality  
Management System.

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## 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!

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