

BELZONA SAVES TANK FROM DEMOLITION

ID: 7867



PROBLEM

Tank has badly corroded annular plate with suspect under thickness tank base plate due to atmospheric pollutants running down the tank walls and under the plate causing external corrosion. Also, the concrete plinth has cracked and has corrosion causing some spalling.

APPLICATION SITUATION

A nuclear power plant's carbon steel holding tank near the sea.

APPLICATION METHOD

The concrete was cleaned. The cracks and defects were rebuilt with Belzona 4111 and Belzona 4911 system. The annular plate was sweep blasted and cleaned prior to applying Belzona 3111 around the tank base in accordance with a modified version of Belzona Know-How System Leaflet GSS-3.

The corroded pipe and flanges were removed and new ones were installed. The new flanges were then encapsulated with Belzona 3412 in accordance with a modified version of Belzona Know-How System Leaflet VPF-13.

BELZONA FACTS

Belzona systems saved two tanks from demolition. Other tanks on the farm were severely corroded and had to be demolished. The new tanks will have the same Belzona system installed from new.

INDUSTRY

Power

LOCATION

North West England

APPLICATION DATE

December 2018

PRODUCTS

BELZONA 4111 (Magma-Quartz)
BELZONA 3111 (Flexible Membrane)
BELZONA 3412 (Encapsulating Membrane)

SUBSTRATE

Carbon steel, concrete

PHOTOS

1. Condition of concrete plinth and tank base
2. Application of Belzona 3111 in grey
3. Corroded flanges
4. Application of Belzona 3412 (Encapsulating Membrane)

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