

BELZONA PROTECTS NEW BUILD DESALTER

ID: 5540



PROBLEM

New build electrostatic desalter required erosion-corrosion protection of the bottom third due to the settling of solids and impurities. With an operating temperature of 146°C (295°F), pressure of 200 psi and steam out conditions of 204°C (400°F), Belzona 1591 was the product of choice.

APPLICATION SITUATION

The refinery required erosion and corrosion protection of the bottom third of a new electrostatic desalter vessel.

APPLICATION METHOD

Application was carried out in accordance with Belzona Know-How System Leaflet TCC-5. Belzona 1591 applied to the bottom third of the vessel.

BELZONA FACTS

The sheer size of the vessel (35.6 m (117 ft) long x 3.6 m (11'9") ID) required a dedicated team from Belzona to train and validate the application contractor, provide field support with a coating inspector and a bilingual project supervisor. The lining project was successfully completed in March 2014 to the required specification and schedule agreed with the client. In the future such projects will be completed with Belzona 1593, which offers significant benefits in application ease. In November 2020, the vessel was inspected by engineers and the coating was found to be in excellent condition apart from some small defects to the top coat. A small number of remedial repairs were undertaken which amounted to 4 units of Belzona 1593 and the vessel was put back into service until the next inspection interval in 6 years.

INDUSTRY

Oil & Gas

LOCATION

Refinery, UK

APPLICATION DATE

January 2014

PRODUCTS

Belzona 1591 (Ceramic XHT)

SUBSTRATE

Carbon steel

PHOTOS

1. Desalter
2. Substrate fully grit blasted.
3. Finished application.
4. Remedials in November 2020 with Belzona 1593.

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