BELZONA SUPERWRAP II PATCHES SEAWATER BULK MEDIA FILTER VESSEL

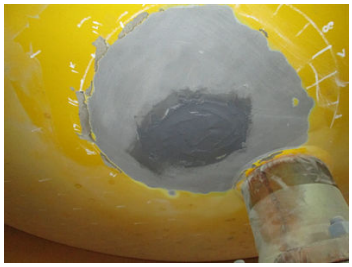
ID: 5574

Industry: *Oil & Gas*
Application: *SOS-Ships and Offshore Structures*
Customer Location: *Gulf of Mexico, USA*
Application Date: *March 2015*

Substrate: *Carbon Steel*
Products:
** Belzona 1121 (Super XL-Metal) ,*
** Belzona 1212 ,*
** Belzona 1291 (ES-Metal) ,*
** Belzona 1982 (SuperWrap II Resin) ,*
** Belzona 9381 (SuperWrap II Reinforcement Sheet) ,*
** Belzona 9382 (Release Film) ,*

Problem
Damage to the external part of the bottom of the vessel due to corrosive environment and seawater transported in the vessel.






Photograph Descriptions

* Seawater Bulk Media Filter Vessel ,
* After abrasive blasting ,
* Belzona 1212 used to patch over thin wall area and sealed through-wall defect ,
* Belzona Superwrap II applied as per engineered design ,

Application Situation

Seawater bulk media filter vessel on offshore Oil and Gas platform.

Application Method

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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The application was carried out in accordance with a modified Belzona Know-How System Leaflet SOS-5 for Reinforcing Cargo Tank Bottoms. The bolt plugging the hole was removed, water drained, and the defected area was exposed. The through-wall defect was sealed with Belzona 1291 and thinned areas were rebuilt with Belzona 1212. The substrate was then cleaned to the requirements of SSPC SP 10 (Near-White Metal) by abrasive blasting. Three wraps (6 layers) of Belzona Superwrap II were applied to the repair area according to design. SuperWrap II repair was consolidated by applying pressure against a curved surface made of Belzona 1121.

Belzona Facts

The customer chose Belzona SuperWrap II because it gave them a specified design life and the “engineering calculations” to prove it would work. Competitor products were unable to provide a specifically engineered composite patch. Customer was pleased with ease of the repair process versus traditional welding methods. By using a composite patch they were able to avoid emptying the entire vessel, hence saving a considerable amount of downtime and labor.