

Belzona Strengthens Nozzles of TEG Flash Tanks on Offshore Platform

ID: 8568

Industry:	Oil & Gas	Customer Location:	China
Application:	VPF-Valves, Pipes and Fittings	Application Date:	2017
Substrate:	Carbon Steel		
Products:	* Belzona 1111 (Super- Metal) Belzona 1983 (Belzona Superwrap II Resin) Belzona 9381 Belzona 9382 Belzona 9111 (Degreaser) Belzona 9611 ,		

Problem

Due to the damage of the original insulation layer, nozzles of the TEG flash tank were corroded under the insulation layer (CUI). The nozzles had developed thin-wall defect and through-wall defect.



Photograph Descriptions

- * 1. Surface preparation ,
- * 2. Nozzles after blasting ,
- * 3. Complete application of Belzona Superwrap II ,
- * 4. View of nozzles after 3 years ,

Application Situation

Nozzles of triethylene glycol (TEG) flash tanks on offshore platform suffering from corrosion and significant thickness loss. The design pressure is 0.7MPa, the design temperature is -7°C~110°C.

Application Method

The repairs were designed in accordance with ISO24817 standard. The application was completed by Belzona trained and validated installers in accordance with Belzona Know-How System Leaflet VPF-11. Belzona supervisor and the on-site representative supervised the whole process. The whole application involved 8 two-inch nozzles.

Belzona Facts

For welding, the whole TEG flash tanks need to be shut down and isolated, with thorough cleaning and water injection, which costs at least 15 days of downtime and affects the production. Welding in confined space may also cause hazards. Therefore, the customer has been looking for the solutions with no hot work required but also accepted by classification society. Meeting the

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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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standard of ISO24817and ASME PCC-2, Belzona Superwrap II can repair the nozzles of pressure vessels on-site, with no downtime or hot work required. The application is still in good condition after 3 years.

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