

Belzona repairs sections of cooling water spools

ID: 9958

Industry: Power
Application: VPF-Valves, Pipes and Fittings
Substrate: Composite
Products: Belzona 1981 (SuperWrap II), Belzona 7311

Customer Location: Connah's Quay
Application Date:

Problem

undergoing a planned shutdown, the client encountered issues while breaking into the cooling water system due to seized bolts.



Water cooling spools arrive with damage to sealing faces and stabbings



The surface areas are prepped to a minimum surface profile for the repair solution



Belzona 7311 is applied and Belzona Superwrap II is applied to add strength and integrity



The cooling spools have been reprofiled and repaired, ready to be reinstated

Application Situation

The spools were removed by cutting around the sealing face joints, severing the bolts and causing damage to the sealing surfaces in the process.

In addition to this damage, several stabbings have either completely failed or have been previously repaired in situ over the years but are no longer performing as required

Application Method

Surface preparation was carried out using power tools, in line with best practice for composite repairs.

Damaged sealing faces were reprofiled using Belzona 7311

For the stabbing Repairs, new collars were machined to slip over the existing damaged stabbings, improving both bonding area and structural integrity. These collars were then bonded in place using Belzona 7311, followed by an external reinforcement using Belzona SuperWrap II

Belzona Facts

This wrap system has previously been used successfully on several cooling water pipes. The solution ensured minimal downtime and had fully restored the assets.

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FS 695214
ISO 14001:2015
EMS 695213

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