

Biomass plant pipe repairs

ID: 8163

Industry: Power
 Application: VPF-Valves, Pipes and Fittings
 Substrate: Carbon steel
 Products: Belzona 1982 (SuperWrap II)

Customer Location: Scotland
 Application Date: January 2020

Problem

Welding was not an option in this environment & the plant was keen to keep this tank running as the majority of the plant's operation depended on it.



Surface preparation underway

SuperWrap 2 consolidated

Completed repair

Repair in place 5 years later

Application Situation

Following NDT testing of a digester feedpipe, it was found that internal corrosion has caused the pipe wall thickness to approach the minimum allowance. A repair was required to reinforce this pipe without shutting down & dismantling the pipework.

Application Method

The area was prepared to SSPC SP11 using a mechanical abrasion cleaning process. Belzona 1982 was applied along with Belzona 9381 composite reinforcing sheet. A wrap system was applied to the feedpipe along with a patch system terminating onto the tank. Bracket bolts were patched around. The repair was then consolidated with Belzona 9382. The repair was done on a 'standard' SuperWrap II basis.

Belzona Facts

Using this system was much safer than welding & much quicker than dismantling & replacing the pipework. The repair was viewed onsite 5 years following the application & is in good condition.

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 FS 695214
 ISO 14001:2015
 EMS 695213

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