

Biomass plant pipe repairs

ID: 8163

Industry: Power
Application: VPF-Valves, Pipes and Fittings
Substrate: Mild steel
Products: * Belzona 1982 ,
* Belzona 9381 ,
* Belzona 9382 ,

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.



Photograph Descriptions

- * 1 - Surface preparation of tank wall ,
- * 2 - SWII system applied & consolidation tape in application ,
- * 3 - Application on tank wall ,
- * 4 - Application on pipe ,

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' SWII basis.

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FS 695214
ISO 14001:2015
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Belzona Facts

Using this system was much safer than welding & much quicker than dismantling & replacing the pipework.

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