STEEL PLANT NOW BACK ON LINE WITH BELZONA WRAP

ID: 2197

Industry: *General Industry*
Application: *VPF-Valves, Pipes and Fittings*
Substrate: *Cast Iron*
Products: ** Belzona® 1121 (Super XL Metal) ,*
** Belzona® 9341 (Reinforcing Tape) ,*

Customer Location: *Steel Plant, Teesside, UK*
Application Date: *2011*

Problem

The gas leak on the cast iron pipe was detected and once excavated a 10 inch long crack over the socket area was found to be the cause. The pipe was critical to the plant operation so an immediate solution was required. The coke oven gas had a typical internal pressure of 500 mbar and client needed to reduce the repair period to a minimum.

Photograph Descriptions

* Site access to excavated pipe section ,
* Excavated 24 inch Gas Main with crack identified ,
* Completed Belzona® 1121 wrap ,

Application Situation

Leaking 24 inch cast iron coke oven gas main from the coke ovens to the power plant .

Application Method

The crack was terminated and vee'd cut in accordance with Belzona Know-How System Leaflet VPF-8. Belzona® 1121 was used to pack the gasket and create fillets on either side of the flange, before conducting a wrap repair in accordance with Belzona Know-How System Leaflet VPF-11a.

Belzona Facts

ISO 9001:2015
Q 09335
ISO 14001:2015
EMS 509612

Belzona products are manufactured under an ISO 9000 Registered Quality Management System.

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The client asked Belzona for a rapid response and the preparation and application were completed within a day. Because of the restricted access in the pit and the size of the pipe, Belzona® 1121 was chosen to conduct the repair throughout due to its longer working life. The external pipe diameters were nominally 67cm, with a flange of 83cm diameter. The final 3 layer wrap was approximately 97cm length, and consumed 96Kg of Belzona® 1121. After curing for a day the gas main was reopened and tested at full pressure to the absolute satisfaction of the client.

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