SYLWRAP Case Study

Cheese Plant Leaking Deaerator Tank Repair

Two leaks in a dairy deaerator tank are sealed with the system still in service, saving a cheese production plant from using a £20,000 resin-injected sleeve



Pressurised water was spraying out the leak in the tee-joint where it met the vent condenser manifold



Superfast Aqua PW bonded a metal fitting over the leak, which was then closed to contain pipe content



Wrap & Seal was applied around the injector pipe leak located at another joining point to the manifold



Superfast Aqua PW was added to strengthen and reinforce the joining point between the injection pipe and the tank in a belts-and-braces repair

Defect

The leaks were in a carbon steel tee-joint and a stainless steel injection pipe connected to the tank vent condenser. They made the deaerator inefficient by causing it to lose heat rather than recovering it.

An online repair was needed because turning the deaerator off for any period of time would cause severe disruption to cheese production.

After an engineering company recommended a resin-injected sleeve repair costing more than £20,000, the cheese plant came to Sylmasta.

Solution

The tee-joint could not be wrapped because the hole was located where the pipe joined the vent condenser manifold. So it was decided to use a new no wrap live leak repair method recently developed by Sylmasta.

Superfast Aqua PW Epoxy Putty bonded a metal fitting directly over the leak. The epoxy putty channelled the leak path directly through the fitting, which was then tapped off to contain pipe content.

Wrap & Seal Pipe Burst Tape provided a more straightforward repair for the injector pipe. The plant added Superfast Aqua PW over the top to reinforce the joining point between the pipe and deaerator.

Result

Completing the repair took one day and the deaerator tank remained in service throughout. The temperature resistance of Superfast Aqua PW (150°C) and Wrap & Seal (250°C) easily coped with the heat of the system.

The repair cost under £100 and was done by the dairy maintenance team, representing a huge saving on a specialist company installing a resin-injected sleeve.

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