



Power Station Hydrogen Line Pipe Repair

Two leaking joints on a 600mm section of hydrogen line at a power station in Puerto Rico required sealing before a new cooling system could go online

Defect

A hydrogen generator had been installed for cooling operations at the station, replacing the previous inefficient process of storing and transporting gas from an off-site tank.

Pipes took hydrogen from the new generator to where it was required. Prior to the system being put into service, hydrogen detectors were used to test for leaks. A 600mm section of pipe was found to be leaking, suspected from two joints between two valves.

Solution

Although the leaks posed little threat, the station decided to repair and reinforce the line. The pipe was isolated and **Superfast Steel Epoxy Putty Stick** pushed tightly onto the pipe around both joints. The putty cured to form a steel-like material, plugging any gaps through which hydrogen could be escaping.

The entire line was then wrapped in a **SylWrap HD Pipe Repair Bandage**. Once cured, the Bandage provided a rock hard, impact resistant sleeve encompassing the pipe.

Result

24 hours after the repair and the line was repressurised. The hydrogen detectors could find no gas in the air, indicating the application had been a success. The new cooling system was then put into full service.

