AESSEAL®
ENVIRONMENTAL TECHNOLOGY

FIDC™ cleans up at salt plant

Outdated and inefficient gland packing on a slurry pump at a UK salt processing facility was using water at the rate of nearly ten litres a minute.

The saline slurry was also caking the premises in dried white powder, creating difficult working conditions and an environmental headache. A further problem was being caused by its abrasive nature, which was damaging the packing so that it had to be regularly replaced.

When AESSEAL® was asked to provide a solution to the problem, its response was to recommend the installation of its FIDC™ seal. This bi-metal alloy seal is the next generation of high-performance sealing solutions offering increased barrier fluid flow for improved reliability. Its modular design is easily adapted for a variety of applications, and its cartridge construction makes it easy to install. Most importantly for this application, it is particularly well-suited to situations involving corrosive material.

The seal was installed in May 2024, and more than seven months later is still running successfully with no sign of leakage. There has been a huge reduction in water consumption, and the working environment is no longer caked in dried slurry.

The success of the FIDC™ seal and the outstanding level of customer service offered by AESSEAL® is now providing opportunities for more business at this facility. The next pump is due to be upgraded in the coming months, and a number of other pumps are also in line for replacement. Further possibilities exist with the construction of a new processing facility, which is due to open in 2025.

‘Saving more than 4 million litres of water per year’

Industry:	Chemical
Product:	FIDC™
Application:	Saline Lime Slurry Pump
MTBF Increase:	133% (and counting)
Water Savings:	>4 million litres per year
Reference N.O:	TD3107821