



ENVIRONMENTAL TECHNOLOGY

Seal failures solved at US company

The installation of double cartridge mechanical seals and a water management system has solved a persistent and costly problem at a US paper mill.

A condensate separator pump was running dry and causing the single seal to fail on a regular basis, resulting in the leakage of hot condensate to the floor. The company consulted AESSEAL® to find a possible remedy.

AESSEAL® proposed the installation of its FIDC™ Double Mechanical Seal and SWC™ Condensate System, which keeps the seal constantly supplied with clean, cool barrier fluid. Condensate used as barrier fluid prevents untreated water from entering the condensate system.

The next generation FIDC™ seal offers increased barrier fluid flow for improved reliability, and includes a flow inducer to help with the removal of heat from the seal, self-aligning seal faces, and a cartridge construction which makes it easy to install.

The installation was carried out in May 2017, and is still running successfully over 6 years later with routine maintenance. The return on investment was achieved within six months and the company is now reporting \$8,600 in annual savings as a result of greater efficiency in water and energy consumption.



'Great Energy and Water Savings each year'

Industry:	Pulp & Paper
Product:	FIDC™ & SWC™
Application:	Condensate separator pump
MTBF Increase:	1,775% (and counting)
Savings:	\$8,600 per year
Reference N.O:	TD3097543



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