



ENVIRONMENTAL TECHNOLOGY

Over a million US gallons of water saved per year

A Kentucky pulp and paper company is saving at least \$19,000 a year following the replacement of its existing seals with AESSEAL® products.

The company was having problems with the existing water flush, which was not sufficient to keep black liquor and solids out of the seal chamber. The seal was failing every six to 12 months, and the flush water was diluting the black liquor, which was then feeding into the evaporator system. Over time, the system was becoming clogged with fiber, which should have been removed by the fiber filters. The additional energy used to remove the water in this system was reducing the mill's efficiency, while the need to carry out frequent maintenance on the evaporator set required a temporary shutdown of this part of the operation, with significant extra unnecessary costs.

In April 2021, AESSEAL® installed two IADC™ dual seals and SW3™ water management system, and a pressurized seal support system (API Plan 53a). This reduced water consumption by over a million US gallons per year, and reduced steam costs by at least \$13,000 per year. The additional seal life will also save a minimum of \$6,000 a year by reducing downtime due to repair and maintenance. MTBF was previously between six and 12 months. The system installed by AESSEAL® is still operating without a problem over 21 months later.



'Steam costs reduced by > \$13,000 per year'

Industry:	Pulp & Paper
Product:	IADC™ and SW3™
Application:	Black Liquor
MTBF Increase:	133% (and counting)
Savings:	> \$19,000 each year
Reference N.O:	TD3085270



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