



ENVIRONMENTAL TECHNOLOGY

## Reducing Energy Usage in the Pulp and Paper Industry Cost \$8,000: Savings \$56,000 and counting

A pulp and paper manufacturer was using gland packing on their 4th effect evaporator. To reduce energy usage, conserve water and increase reliability, they turned to AESSEAL®.

AESSEAL® upgraded the gland packing to a CDSA™ and SW water management system operating in an API Plan 54 arrangement. The CDSA™ is a dual mechanical seal specifically designed for difficult applications. The seal incorporates design features that enhance leak-free performance and trouble-free operation with self-aligning faces to ensure both the inboard and outboard faces remain square (90°), to the rotating shaft. The unique “universal joint” concept means each face remains flat across a wide pressure range. A spring-loaded internal rotary centrifuges solids away from the seal faces, avoiding clogging from process fluids.

The seal and support system have been in place for over 9 years and have helped:

- Reduce water usage by 24 million gallons of water (with a saving of over \$56,000)
- Increase pump reliability

With a return on investment of less than 2 months, the solution specified by AESSEAL® has proved a sound decision.



## “Increased MTBF by over 1000%”

Industry:	Pulp & Paper
Product:	CDSA™ and SW Water Management System
Application:	4th Effect Evaporator
MTBF Increase:	1000% and counting
Return on Investment:	< 2 months
Reference N.O:	CH00191



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