Case Study: Paper Mill HYDRA-JUST®

INDUSTRY

Pulp and Paper

Garlock

CUSTOMER

A large paper mill in the Florida panhandle had a major problem.

BACKGROUND

The bottom circulating pump on their digester was down for seal replacement far too often and if it couldn't run, then neither could the digester. Originally, the mill was using Kevlar[®] and GFO[®] packing to seal the pump, but this would only last 3-6 weeks. In addition to lost production time due to rapid seal failure, the mill had to deal with white liquor leaking out of the pump and the waste of having to use vast amounts of flush water to maintain the packing.

CHALLENGES FACED

A mechanical seal was installed with the hope of fixing the problem. However, due to fluctuations in the mill's seal water pressure, the mechanical seal failed in less than a week.

SOLUTION AND BENEFITS

That's where Garlock and the HYDRA-JUST[®] system came in. The mill went from monthly failures to annual maintenance, dramatically cut their water use and realized significant operating savings. In fact, the HYDRA-JUST[®] seal worked so well the mill installed an identical seal in their top circulating pump.

Garlock

Garlock Australia

Garlock de Canada, LTD

GPT

KEVLAR is a registered trademark of DuPont GFO is a registered trademark of Gore and Associates

GARLOCK

an *EnPro* Industries family of companies Tel: 1-877-GARLOCK / 315.597.4811 Fax: 800.543.0598 / 315.597.3216 www.garlock.com

PERFORMANCE COMPARISON

Annual Profit Impact

	Current Practices	Garlock's Solution	Profits Gained
Costs due to lost production	\$14,479	\$1,207	\$13,272
Costs for the seals	\$5,052	\$550	\$4,502
Cost for associated parts	\$1,800	\$150	\$1,650
Labor costs to install	\$7,104	\$592	\$6,512
Annual Operational Impact	\$28,435	\$2,499	\$25,936
	CURRENT	PROPOSED	PROFIT GAIN
\$28,435 -			
\$25,936 -	-		
\$2,499 -			

For more information, please visit: http://www.garlock.com

> Garlock China Garlock Singapore Garlock Germany Garlock India Private Limited

Garlock de Mexico, S.A. De C.V. Garlock New Zealand Garlock Great Britain Limited Garlock Middle East