



ENVIRONMENTAL TECHNOLOGY

Seal upgrade saves cornmill \$280,000 in repairs and downtime

Cargill Corn Milling Inc was experiencing leakage on the seals of a boiler feed pump at its plant in Iowa, USA.

The sealing chamber on the pump was outdated, meaning that the entire pump would have to be removed and the seal chamber modified off-site by the original supplier in order to replace the seals like-for-like. When this work had been carried out previously on a boiler feed pump, it had taken the pump out of action for two years and incurred costs to the customer totalling almost \$300,000. Cargill Corn Milling asked AESSEAL® to provide an alternative sealing solution.

AESSEAL® installed a SMSS23 single cartridge mechanical seal, which could be fitted without any need for pump modifications. A Graham cooler was also fitted. Unlike other coolers on the plant, this does not employ forced air and therefore required no electrical work to complete the installation. Delivery was completed within the four week quoted window. Total cost to the customer was less than \$20,000 – a \$280,000 saving on the previous seal replacement.

Cargill Corn Milling was also advised to switch away from a Plan 32 to Plan 23. The ongoing water and energy conservation will achieve year-on-year cost savings.



Industry:	Food & Beverage
Product:	SMSS23 and Graham Cooler
Application:	Boiler feed pump
Savings:	US\$ 280,000 / year
Reference N.O:	15012021-KLC01

