AESSEAL®
ENVIRONMENTAL TECHNOLOGY

Significant savings with new AESSEAL® system

A corn milling company in the Midwest of the United States is in line to save hundreds of thousands of dollars following the installation of the latest AESSEAL® products.

The company had 11 outdated and poorly-maintained pumping systems in its outdoor distillation area. Most had no pressure gauge or regulator. The result was that pressures were not being monitored, which meant that the header was running at 80psi - too high a pressure differential for the existing seal arrangement.

In winter the company was mixing glycol into the supply at a cost of around $6000 a month. If the water/glycol mix was not correctly maintained there was a significant risk of freezing within the system. On the one occasion when this happened, the resulting week-long outage cost the plant over $750,000 in lost production and maintenance.

AESSEAL's solution to these problems was to upgrade all the seals to DMSF™ double cartridge mechanical seals in their respective sizes. Each tank system was upgraded to an AESSEAL® SW2™ 25L with cooling coils.

The new system was installed in September 2022 and has been operating with no problems. The tank systems have been properly set with pressures that no longer require the supply tank to be topped up by means of a hose. The pumping rings in the DMSF™ ensure flow between the seal and tanks, which keeps the fluid moving and less prone to freezing. The cooling coils are being used to heat the tanks during the winter months, which also protects against freezing and potentially saves the company huge costs in lost production.

A company spokesman said: "We greatly appreciate the help provided by AESSEAL® advisers. It was a pleasure working with them throughout the process, and we can already clearly see the benefits of the new system."

'System upgrade gives huge reliability improvement'

Industry:	Corn wet milling
Product:	DMSF™ and SW2™
Application:	Glycol pumps
Savings:	Lost production and maintenance costs
Reference N.O:	TD3085312