



ENVIRONMENTAL TECHNOLOGY

DMSF™ solves reliability issues for Swedish company

Elastomer degradation was causing the seals on three of the boiler feed pumps at a Swedish energy plant to fail around every 12 months.

This was resulting in a serious loss of production, and because the pumps were located in a relatively inaccessible part of the plant, it was also expensive in terms of the hours required for dismantling, repair, and reassembly.

When the company turned to AESSEAL® in the search for greater reliability, AESSEAL® recommended its DMSF™ range of double cartridge mechanical seals. The DMSF™ range has been specifically designed to operate in demanding conditions, and is regarded as the most technologically advanced mechanical seal in its class. DMSF™ seals have been shown to reduce maintenance costs and plant downtime, and are highly effective in their ability to withstand barrier and process fluctuations.

The seals were installed in April 2012, and have proved to be efficient and extremely reliable. In fact, they were only exchanged for new ones 12 years later, not because they were failing, but because the bearings in the pumps needed to be replaced. Eliminating the problem of leaks has also meant less water on the floor in the vicinity of the pumps, improving plant safety by reducing the risk of slippage for maintenance personnel.

The company estimates that it has saved around 300,000 Swedish kroner (around \$27,000) per pump so far on downtime and maintenance costs. In 2013, when it saw the benefits of the DMSF™ seals, it awarded AESSEAL® a further contract to install the same system on a fourth pump, which has now been working for more than ten years without a problem.



‘Seal reliability increased from 1 year to >12 years!’

Industry:	Power
Product:	DMSF™
Application:	Boiler Feed Pumps
MTBF Increase:	1,108%
Savings:	>\$100,000
Reference N.O:	TD3103401



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