



ENVIRONMENTAL TECHNOLOGY

AVT sensors save thousands for US company

Excessive vibrations in a vertical pump in a slurry pit application was leading to failure every month for the North Carolina company Befesa. Repair costs per pump were in excess of \$20,000. The vibrations were being caused by the blockage of the pump discharge and the build-up of material inside the pump casing, damaging the mechanical seal and plugging the line shaft.

AESSEAL® recommended the installation of MSF 2 magnetic base sensors. This technology, collectively branded as Machine Sentry, is available from AVT Reliability Limited® (AVTR), a fully owned subsidiary of AES Engineering. It allows UK-based reliability engineers to collect and monitor data on the health of factory machinery all over the world, in order to ensure reliable performance, avoiding breakdowns and potential environmental accidents.

The system allowed Befesa to monitor the wear and tear, and to pull the pumps before the damage to the shaft and bearing housing was beyond repair. Company engineer Timothy Kozachuk said that within eight days the sensors enabled them to save over \$20,000 in pump repairs.

In total, the company's investment in the sensors and the AVT software license has led to estimated savings of more than \$60,000 in the first few months of operation alone. The success of the application has led them to order an additional 25 sensors with an AVT survey and plan upgrade proposed for later this year.



'Over \$20,000 saved within eight days'

Industry:	Mining
Product:	MSF 2
Application:	Vertical Slurry Pump
Savings:	>\$60,000 (and counting)
Reference N.O:	TD3100061



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