



EXPERIENCE THE EXCEPTIONAL

Huge cost savings and improved reliability with gland packing upgrade

An Australian coal mine had been using gland packing on their 3 coal slurry transfer pumps and asked AESSEAL® to help improve their reliability. A mean time between failure (MTBF) of just 2 months meant that costs at over \$135,000 AUD for pump maintenance were unacceptably high.

Typically when the gland packing started failing around every 6 weeks, the leaking water would cause the pump pit to flood, eventually necessitating a pump overhaul every 6-7 months. The leaking also led to pump bearing damage.

In a typical year the pump packing was replaced every 2 months, the shaft sleeve replaced twice a year and the bearing barrel rebuilt at least once. In addition, 78 litres of flush water per minute was used.

Following consultation with experts at AESSEAL®, it was recommended that the gland packing and flush arrangement was replaced with a HDDSS seal in conjunction with a Water Management System. In the first 19 months of operation the following savings were made for each pump:

- 6 x repacks of the pump @ \$465 AUD / repack
- 2 x replacement shaft sleeves @ \$1,650 AUD / sleeve
- 1 x bearing barrel rebuild @ \$18,500 AUD
- Water savings of $78 \times 60 \times 24 \times 365 = 40,996,800$ litres / year

With the newly installed solution from AESSEAL® maintenance has been all but eliminated.

“2400% and counting MTBF increase”

Industry:	Mining
Product:	HDDSS plus Water Management System
Application:	Coal Slurry Transfer Pump
MTBF Increase:	2400% (and counting)
Savings:	\$183,000 AUD (and counting)
Reference N.O:	CH01254



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