



Summary

Industry:	Power Gen - Fossil Fuels
Application:	Pump Redesign and Enhancement
Actual Saving:	£n/a
Payback Period:	n/a



Pump Redesign Allows for Bearing Lubrication

ERIKS pump redesign reduces HSEQ concerns

ISSUE

A UK Gas fired power station operates a set of 8 long coupled centrifugal condensate return pumps on their plant. These 8 pumps had been missed from the power stations regular maintenance schedule. During operation a pumps bearings failed and caused its drive end bearing to collapse, throwing the drive motor off its base plate and across the site. This catastrophic failure was an obvious concern and an investigation was launched.

Upon investigation the pump set was discovered to be around 12 years old and still fitted with its original sealed for life bearings.

SOLUTION

The power station contacted Carl Lock from ERIKS Pump Technology division to investigate and advise on a solution. ERIKS fully investigated the application and advised on a number of improvements.

1. Modify and redesign the pumps existing bearing housing to accept a greased bearing arrangement, so the pumps can be added to the stations lubrication regime.
2. Re install the base plates and provide new stronger fixings to the pump plinths
3. Flood grout the entire pump base to provide a stronger foundation for the pump to operate from.

OTHER BENEFITS

- The upgrade of these pumps have now removed any future HSEQ concerns over failures.
- The power station now has a programme in place to upgrade all the pumps on this system, and have added them to the stations lubrication programme

FURTHER COMMENTS...

ERIKS utilised the capabilities of both our Dudley Pump Technology Centre to undertake the pump redesign work and our site field teams to undertake the installation, alignment and commissioning back into service.

Carl Lock, Business Development Manager
Eriks Pump Technology

MORE INFORMATION

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