



Summary

Industry:	Fossil Fuel Power Generation
Application:	Obsolete Seals
Actual Saving:	£n/a
Payback Period:	n/a



Sealing capability ensures replacement product

ERIKS Sealing Technology replaces obsolete Seals

ISSUE

A large Power Generator was experiencing problems with obsolete seals. George Angus, a large seal manufacturer had withdrawn their entire range in the 1990's, leaving the customer with no choice but to find alternate products.

They contacted ERIKS Sealing Technology, an ERIKS Core Competence Centre to identify a solution. This kind of problem is a daily occurrence for the technical specialists at ERIKS, with the continued consolidation of the industry. In addition, the increased environmental and health and safety legislation makes it harder for customers who are re-sourcing obsolescent products.

SOLUTION

The vast knowledge of ERIKS technical and procurement teams assist in rapid identification of potential alternative products. ERIKS have developed cross reference tables to other manufacturer' direct equivalents for their standard ranges. In addition ERIKS Materials Technology Centre provide real peace of mind with numerous pieces of analytical equipment on hand to assist customers, such as:

Fourier Transform Infra-red Spectroscopy (FTIR)

Molecules have specific frequencies at which they naturally rotate or vibrate. Exposing a material sample to a spectrum of infra-red frequencies the equipment can identify which molecules are present by detecting which frequencies are absorbed. This technique is used to identify the base polymers material type in quality control and to identify thermo-chemical decomposition. FTIR is frequently used to identify the acrylonitrile content of NBR compounds and the base polymer type of fluoroelastomers.

Thermo-Gravimetric Analysis (TGA)

TGA is used to identify weight loss of a compound either isothermally over time or over a ramped temperature range. The relative composition of compounds can be identified, to quantify polymer, organic and inorganic filler contents and types. When combined with mechanical properties and application testing these analytical tools and configuration management mitigate customer risk when faced with obsolescence.

OTHER BENEFITS

- ERIKS ensured minimal downtime for the customer
- Superior replacement product
- Ensured future availability of the seals

FURTHER COMMENTS...

The capabilities of the Material Technology Centre and the technical knowledge of ERIKS specialists ensured the customers obsolescent seals were replaced with a superior product.

MORE INFORMATION

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