



Need to boost your plant's availability and reliability?

Benefits

- Increase productivity
- Reduce maintenance costs
- Reduce unplanned downtime
- Improve asset availability
- Reduce energy and operating costs
- Enable continuous improvements
- Enhance profitability
- Improve health, safety and environmental compliance



SKF MARLIN data manager
ODR processes and technologies from SKF help operators record and communicate their observations accurately and consistently.

Start with Operator Driven Reliability from SKF.

For today's power plants, optimizing output in the face of rising operating costs, reduced manpower and stringent regulations is a constant challenge. By enabling operators to take the lead in monitoring and maintaining equipment, the proven Operator Driven Reliability (ODR) programme from SKF is helping plants meet this challenge.

Why Operator Driven Reliability?

Because of their proximity to equipment, operators are usually the first to detect even the smallest changes in process conditions and machinery health, including leaks, abnormal readings, excessive heat, vibration or pressure.

In a successful ODR programme, operators perform process parameter inspections, record and communicate observations on machine performance, and make minor adjustments. Using technology to automate these tasks facilitates consistency, accuracy, and plant-wide information sharing, all of which can enhance your production and maintenance strategies.

With ODR, operators become an integral part of an overall reliability-based asset management strategy that can result in



increased productivity and reduced unplanned downtime.

Why choose SKF?

SKF knowledge engineering enables a comprehensive, single-source ODR solution. Featuring hand-held monitoring devices, sensors, and software, SKF's ODR system components work together seamlessly and integrate with a plant's computerized maintenance management and/or decision support system.

SKF has the experience and expertise to tailor an operator driven reliability programme to meet your facility's unique goals and help implement sustainable, continuous improvement.



Increase the return on your maintenance investment with SKF

The whole idea behind the SKF 360° Solution is to help you get more out of your plant machinery and equipment investment. This may mean lowering your maintenance costs, raising your productivity, or both! Here's an example of the SKF 360° Solution at work in the traditional electric power generation industry.

SKF's Operator Driven Reliability programme saves coal crusher from catastrophic damage – and €41 000 in repairs

The problem

A defective temperature probe allowed a problem on the motor of a 60" coal conveyor system to go undetected during normal operator rounds. A catastrophic motor failure occurred, prompting plant management to seek a better way for operators to monitor critical equipment.

Management also wanted a system that would allow the maintenance and engineering teams to monitor operator inspection results and facilitate the work order review process.

The SKF solution

SKF helped the plant set up a successful Operator Driven Reliability (ODR) programme, using the SKF MARLIN data manager, SKF Machine Condition Detector and SKF @ptitude enterprise software suite.

These ODR tools provided operators with a quick, accurate, consistent method of logging and digitizing observations, along with the ability to capture vibration and temperature data. The information collected was archived in a common database for trending and monitoring alarm conditions reported through an automatic exception report generator. SKF facilitated and implemented the initial process, provided enabling technologies, and trained operators on all five shifts.

The results



Within a week, operators found several lubrication issues on equipment and initiated work orders for corrective action.

As part of the ongoing ODR

programme, operators detected an evolving bearing problem on one of the primary coal crushers. The bearing and seal were replaced for about €1 370, compared with an estimated €41 000 if the problem had gone undetected and the bearing had failed catastrophically.

Operators recognize the benefits and value of their inspections, which continue to foster an enhanced culture of teamwork, shared goals and an improved sense of ownership among the departments.

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PUB 76/P8 10271 · September 2009

Printed in Sweden on environmentally friendly paper.

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