

# Timken StatusCheck™ Monitors Motors at Scottish Power

# TIMKEN

Where You Turn

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#### Customer

Scottish Power Ltd.  
United Kingdom

#### Market

Power generation

#### Application

Coal pulverizers

#### Timken Solution

StatusCheck installation

#### Customer Benefits

- Less downtime
- Reduced maintenance
- Technical services

#### About ScottishPower

ScottishPower Ltd. is part of one of the world's largest utility companies. At the giant Longanett power station located in Fife, Scotland, 32 coal-pulverizing mills feed the boilers and generate electricity for about 40 percent of Scotland's residential and commercial customers.

#### The Challenge

The customer's objective was to keep the mill drive trains operating continuously, by implementing a simple method to record operating trends.

For such a plant, keeping the mill drive trains operating is critical. Failure of a motor requires four to six hours of time spent to repair or replace it. Each occurrence can cost dearly in both loss of production and potential penalties in not achieving targeted outputs.

ScottishPower previously relied on handheld devices used at irregular timed intervals to monitor the motors and gearboxes, they didn't have a simple straightforward method of recording the operating trends, relying on a manual input of individually recorded parameters into complex spreadsheets.

#### The Solution

For ScottishPower, the major selling point of Timken's StatusCheck™ condition monitoring system was its wireless feature. The system allows Scottish Power to better technically assess plant condition, in conjunction with a number of other plant parameters, and best deem when maintenance should be carried out upon particular mills and in which order.



The customer required some convincing of the benefits. In fact, it took a number of visits by different Timken associates together with a representative from an authorized distributor to persuade the customer to give StatusCheck a trial by purchasing a starter kit.

Once ScottishPower agreed to the trial, a Timken specialist from Colmar, France, traveled to the Longanett facility to oversee installation of the system with sales representatives from Timken and the distributor. To demonstrate the capabilities of the system, he created 'worst case scenarios' by successfully monitoring the geared motors at the farthest point from the StatusCheck controller.

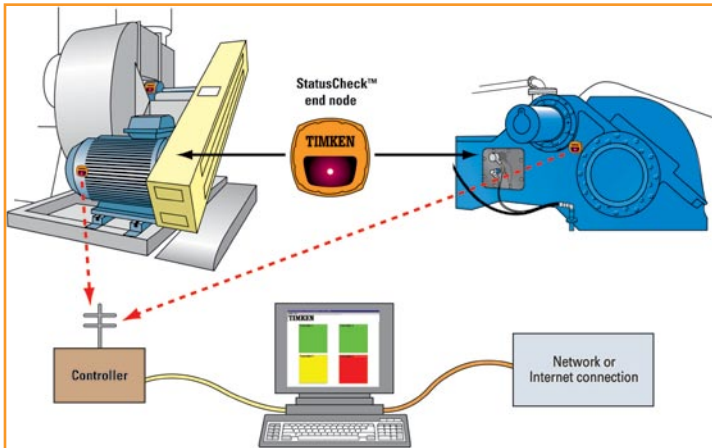
This demonstration gave ScottishPower the confidence to invest in the full system.

**About StatusCheck**

The StatusCheck system is designed to detect and monitor excessive levels of vibration and temperature in bearings, gearboxes, electric motors and other industrial machines.

The Longanett system monitors 32 motors and gearboxes of the 32 coal pulverisers and transmits electronic warnings of maintenance issues that could cause machinery to malfunction. It feeds information into a standalone computer at ScottishPower that displays the machinery trends.

The sale creates a good future business opportunity with ScottishPower. They already purchased Timken® tapered roller bearings for applications in the wheels and gear boxes used in the pulverizing mills. But now they recognize that Timken is more than just a bearing supplier.



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