

## Background

In a coal-fired power generation plant, unscheduled turbine down time is lost revenue that can never be recaptured.

Overseeing all facets of this multi-million dollar equipment is critical to staying on the grid. Real-time monitoring systems for vibration, temperature, pressure and flow have been utilized for many years to help predict failures and to schedule maintenance events.

## Problem

The customer's concern was that they did not have a good method to determine how clean and how dry the oil was in real time. The customer would perform periodic oil sampling and lab analysis to determine if their system's "life blood", the turbine lube oil, was within specifications. Bottle sampling results were subject to wide swings and were easily tainted based on technique. They needed a better way to evaluate the condition of this oil. Analysis

turn-around time was a couple days if performed on site, and over a week if sent out to a lab. This delay may have cost precious time, and damaged critical equipment.

## Solution

We worked closely with our distributor to demonstrate the TCM Contamination Monitor and TWS-C Moisture Sensor. The instantaneous results shown on the Schroeder displays sold the customer. We also showed a real need to

evaluate their current filtration specifications. We are now working with this customer to install additional filtration where necessary via our KLS, KLD and X-Skid product lines.

Schroeder Regional Sales Manager: Mark Allen

<b>Customer</b>	Coal Fired Power Plant
<b>Type of Machinery</b>	Turbine Lube
<b>Reservoir Capacity</b>	1000 Gal
<b>Operating Fluid</b>	Synthetic Turbine Oil
<b>Schroeder Product</b>	TCM, TWS-C, Display
<b>Customer Problem</b>	Customer wanted a way to continuously monitor the particulate and moisture contamination levels on their turbine lube systems

