Integrated Condition Monitoring

Condition Monitoring utilizes data from vibration, oil analysis, thermography, ultrasonic, motor and processes to monitor the health of plant machinery as part of Condition Based Maintenance. Condition Monitoring helps keep your machines running efficiently through predictive methods that tell you when and which systems need maintenance, or are at risk of failure.

> *"Now, advanced integrated systems can give operators detailed information on any alerts, such as bearing one shows early stages of wear, verify by adding lubrication to the bearing and rechecking the system diagnostics. In addition to providing useful information earlier, an integrated system helps eliminate duplication of configuring, alarming and trending within the enterprise."*
>
> **—Greg Hood, Plant Services**

The goal of Condition Monitoring is to prevent asset failures, outages and unnecessary equipment and parts replacement. This is achieved through close observation and asset data analysis. Plant engineers and maintenance crew gain an understanding of each asset and its maintenance needs, and are therefore able to make more informed, data-driven decisions for a plant's optimum performance.

Where other solutions require data from multiple sources to be derived, combined and analyzed, MAINTelligence™ offers a single, integrated solution for comprehensive Condition Monitoring of:

- Vibration analysis
- Lubricant analysis
- Thermography
- Ultrasonic analysis
- Motor monitoring

The streamlined process is simple, flexible and scalable, enabling you to conveniently integrate all condition monitoring data of your assets into one, easily accessible database.

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Integrated Condition Monitoring

Choosing the Optimal Condition Monitoring Strategy
For You

Integration begins with an assessment of your assets to gain control of the data that already exists in the plant, and then consolidating it into one system. Storing all of this information in a single database that is easily accessible to all departments in the organisation—from the maintenance group to engineering—will dramatically improve the accuracy of your reporting. There will be no need to re-enter, convert or merge data across multiple sources.

Benefits of Effective Integrated Condition Monitoring:

- Accurate forecasting and planning / optimized inventory
- Decreased unscheduled maintenance
- Quantifiable data for data-driven decisions
- Drives condition-based work orders

Integrated and cohesive data is vital for management to make positive decisions for the company as a whole. MAINTelligence™ allows clients to sync equipment conditions, as well as access a log and history of detailed information, including past alarms and corrective work orders on assets, for more informed decision-making.

> Integrated Condition Monitoring is integral to your plant's smooth operations.

Bill Phipps, Production Supervisor at the Vectren Energy Delivery Plant in Ohio, US, states that during the first month the system was implemented, they had over 800 work requests come through MAINTelligence™. Prior to using Condition Monitoring, the operators often neglected marking equipment health on a piece of paper, so machine maintenance slipped through the cracks.

"Now, we're down to 30 to 40 work requests a month that come through MAINTelligence™," says Phipps. The system auto-generates work orders and modifies maintenance schedules based on alarms and knowledge-based diagnostics. Vital machinery is getting fixed and properly maintained without workers having to manually submit the work orders.

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What ICM Means For Your Maintenance Team

Choosing an optimal ICM strategy starts with your needs. As partners in implementation, a dedicated MAINTelligence™ customer support team is available to help guide you and your team, and answer any of your questions within 24 hours.

MAINTelligence™ offers an easy solution to your extensive asset performance management through an intuitive solution that monitors on a hierarchical basis. It also incorporates equipment inspection data and diagnostics into one database, including both predictive and condition-based maintenance data, for a fully integrated management system that seamlessly connects departments, maximizes resources, and minimizes costs for a turnkey maintenance software solution.

Interested in leveling up your organization? Our support team is there to help you all the way from implementation to day-to-day operations. Contact us if you have any further questions. Book your demo today.

"MAINTelligence™ interfaces with our CMMS system. Depending on the criteria that I set in the program, it automatically connects with our CMMS System and generates Work Requests."

—Bill Phipps, Vectren Energy Delivery Plant

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