Novaspect

Machinery Health Solutions for Industry

Poorly maintained machinery is a significant cause of unplanned downtime and unplanned safety and environmental events. Emerson Process Management coupled with Novaspect local technical expertise use a full breadth of diagnostic tools, support a diverse industry base, and a wide range of machine types.

Predictive Technologies

- Vibration
- Oil Analysis
- Infrared Thermography
- Ultrasonic
- Performance Monitoring
- Wireless Condition Monitoring

Emerson's Wide Breadth of Predictive Technologies

Reliability Services

Our staff of senior reliability engineers and support engineers are experienced in design, implementation, testing and ongoing support of online and route based predictive maintenance programs.

Novaspect's On-site or
Remote Diagnostic Services

Systems and Software

- Online Protection and Prediction Systems
- Online Predictive Vibration Transmitters
- Asset Management Software (AMS)
- Emerson Portable Technology
- Emerson Services and Training

Condition Monitoring

Example conditions that our systems monitor:

- Bearing Defects
- Lubrication
- Cavitation
- Gear Defects
- Looseness
- Alignment
- Balance
- Soft Foundation
- Temperature Deviations

Novaspect

Asset Reliability Services – Mechanical Equipment

In addition to a full breadth of technology and product offerings, we bring a wide array of services to the reliability market including:

Machinery Health™ Management

- Program Design
- Machinery Health Audit
- Equipment Reliability Prioritization
- Diagnostic Selection Criteria
- Preventive Maintenance Optimization
- Operator Inspection Rounds
- Performance and Cost-benefit Metrics

Machinery Monitoring and Analysis (Vibration and other PdM Technologies)

- Onsite and Remote
- Periodic and Continuous Online
- Long-Term Contract or On-Call as Needed
- Laboratory Oil Analysis
- Root Cause Analysis

Machinery Balancing and Alignment

- Laser Alignment
- Dynamic Balancing

Application of Technology

- Electronic Operator Rounds
- Predictive Maintenance Technologies
  - Online Vibration
  - Portable Vibration
  - Oil Analysis
  - Infrared Thermography
  - Sonic and Ultrasonic Analysis
  - Motor Analysis
- AMS™ Suite: Machinery Health Manager

Advanced Vibration Analysis

- Modal and Multi-Channel
- Operational deflection Shapes (ODS)
- Reciprocating Equipment Analysis

CSI Technology Implementation (In-house Programs)

- AMS™ Suite: Machinery Health Manager
- Portable and Online Vibration Analysis
- Onsite Oil Analysis
- Infrared Thermography
- Alignment and Balancing
- Sonic and Ultrasonic Analysis

Education and Certification

- Machinery Health Management Training
- CSI Technology Training
  - Classroom and Onsite
  - Certification
- Coaching and Mentoring
  - Onsite
  - Remote

Assets Served

- Turbines/Generators
- Compressors
- Engines
- Pumps
- Motors
- Motor Control Centers
- Transmission and Distribution
- Switchgear, Connections, and Cables
- Gearboxes
- Fans
- Rolls
- Presses
- Conveyors
- Boilers
- Refactory

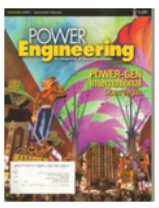
Learn more about our services, products, and customer testimonials on the web at:

Uptime Magazine – June 2010

Vibration Continuous Monitoring – Great Savings at Great River
www.nxtbook.com/nxtbooks/reliabilityweb/uptime_20100607/#/58

Power Engineering Magazine – October 2009

"Installing Predictive Vibration Monitors"
www.pennenergy.com/index/power/display/371153/articles/power-engineering/volume-113/issue-11/departments/what-works/installing-predictive-vibration-monitors.html



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