



Reliability Services

We Take a Closer Look

- Vibration Analysis
- Thermography
- Motor Circuit Evaluation
- On-line Motor Testing
- Balance & Alignment
- Passive Ultrasonics
- Training Courses

Reliability Services

Transform your maintenance strategy today with Applied Technical Services' reliability group. Our experts have extensive experience in preventative maintenance (PdM) and reliability services. We offer a flexible approach to asset monitoring, diagnostics, and maintenance. Our comprehensive suite of services helps clients remain ahead of equipment wear, tear, and failure so they can evaluate their options, prioritize maintenance activities, and mitigate risks at their convenience.

Our ISO-certified experts work with clients to establish predictive and preventative maintenance programs custom-tailored to their individual needs. We currently support operations and availability in 100+ locations nationwide, saving our clients thousands in repair costs and downtime.

Applied Technical Services

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Vibration Analysis

Vibration analysis is the core of an effective maintenance program. It highlights the subtle shifts in machine behavior that can have dire consequences if left untreated. We can measure the vibrations of your machinery and isolate frequencies that indicate problems, such as loose parts and misalignment.

Our technicians are certified in ISO 18346 methods for condition monitoring and diagnostics using vibration analysis. They can help you develop a robust vibration monitoring program to catch and mitigate issues before they become impossible to miss.

Thermography

Infrared thermography (IRT) gives our experts the power to quickly scan equipment for thermal problems and identify concerns invisible to the naked eye. IRT is a nondestructive technique to scan heavy machinery and hazardous environments from a safe distance.

Our experts use IRT to narrow the scope of large investigations, significantly reducing inspection time and costs without losing quality. We apply infrared thermography to electrical surveys, mechanical surveys, and skin surveys.

Balance & Alignment

We offer balance and alignment services on a per-call basis. If components are misaligned or unbalanced, equipment may produce high temperatures and significant wear and tear on couplings and bearings. Our vibration analysts can detect the vibrations caused by misaligned or imbalanced parts, then balance and align the components to return the motor to its proper position.



Motor Circuit Evaluation (MCE)

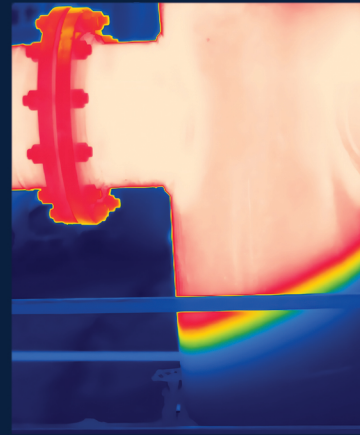
Maintaining the motor's health is essential to ensuring a machine remains in good condition. Our experts use MCE to diagnose issues with motor components, insulation systems, and connections. We also perform de-energized polarization indexing to uncover leaks and a standard AC motor test to assess motor health and cleanliness.

Energized Motor Testing

We can also perform energized motor testing while an induction motor is running to evaluate its performance under normal operating conditions. Motor testing provides a snapshot of the equipment's power quality, balance, and alignment.

Passive Ultrasonics

We use passive ultrasonic listening to analyze high-frequency sound waves that indicate a mechanical or electrical fault. Passive ultrasonics can supplement other non-contact test methods, namely, thermography. The equipment cuts through the noise of industrial environments to pinpoint high frequencies associated with faults, allowing us to diagnose problems even on a busy shop floor.



Training Courses from Our Experts

- Infrared Thermography: Levels I, II, and III per ASNT-TC-1A specifications
- Vibration Analysis
- AC / DC Motor Theory and Testing Applications: basic and advanced levels
- Synchronous Motor Theory and Testing Applications
- Customer-Specific Courses

All this and more is available through the ATS Family of Companies (FoC), your single-source reliability services provider. Through our growing network, we provide clients with an even greater wealth of knowledge and support than ever before.

Why Choose ATS' Reliability Group?

We help our clients enhance their predictive maintenance (PdM) programs to anticipate equipment failures and schedule repairs at their own pace.

A robust maintenance plan enables clients to:

- Maintain a safe work environment
- Mitigate the cost and effects of equipment failure
- Prevent and predict failure
- Reduce production losses and downtime
- Increase machine availability and service life