

Keep Your Power Transformers Powering On With Transformer Clinic™

Did you know that the average age for power transformers in the United States is over 40 years, with 70% being over 25 years old?

Aging infrastructure, lack of spare transformers, and irregular maintenance create an environment where unplanned outages, underperformance, and unreliability in power transformers can result in lengthy inspection/repair processes and revenue stagnation.

Sound familiar? Meet MISTRAS Group Inc.'s (NYSE: MG) Transformer Clinic™.

Transformer Clinic™ maximizes transformer availability and reliability by using a combination of in-service diagnostic testing and long-term 24/7 condition monitoring to determine and keep track of what's troubling your transformer.

Transformer Clinic™ represents an industry benchmark for determining the fitness and health status of your power transformers. Backed by MISTRAS' decades of substation reliability and transformer monitoring experience, Transformer Clinic™ offers four phases of in-service diagnostic testing and monitoring: **Sample**, **Screen**, **Observe**, and **Monitor**.

After an initial test **Sample** is taken and analyzed as a first indicator, the results may necessitate further investigation into areas of concern, calling for an on-site **Screen** spot inspection.

Utilizing industry-leading acoustic emission (AE) technologies, Transformer Clinic™ specialists screen transformers for instantaneous fault detection. Technicians are able to locate a variety of issues, including loose connections, arcing, partial discharge, blocked radiators, and more.

If symptoms are sporadic, Transformer Clinic™ specialists may recommend a 24-hour **Observation**. This results in a comprehensive condition ranking summary, providing a clear overview of the transformer's condition and outlining a recommended course of action if a problem is found.

Long-term **Monitoring** is prudent both for transformer operators whose assets require continued maintenance, and for those who simply want an extra layer of peace of mind. MISTRAS' proprietary AE sensors continuously detect and monitor abnormalities, organizing the data through a web-based application to generate real-time health and condition-based summaries to maximize

your transformer's in-market availability.

MISTRAS' Transformer Clinic™ solutions provide myriad benefits, including determining transformer conditions in real time, reduction/avoidance of Environmental Protection Agency fines due to environmental contamination, unplanned outage prevention, and asset life extension. Safety is paramount in the nuclear industry, so early detection of faults is essential to avoid catastrophic fail-

ures, which maximizes the safety of personnel.

As transformers in nuclear plants continue to age, the need for close inspection and monitoring grows along with them. With Transformer Clinic's™ help, operators can enable their power transformers to Keep Powering On™.

For more information, visit www.transformer.clinic or call 1-609-716-4000.

TRANSFORMER CLINIC

Keep Powering On™

POWER TRANSFORMER HEALTH SCREENING SERVICES AS LOW AS \$499* /UNIT INCLUDES ▶

- SAMPLE** Onsite and Laboratory Testing
- SCREEN** Spot Inspection Testing
- OBSERVE** Overnight Baseline Testing
- MONITOR** 24/7 Continuous Health Status

- Acoustic Emission (AE) • Onsite Dissolved Gas Analysis (DGA)
- Electrical Detection (HFCT) • Vibration • Oil Quality Tests
- Visual Inspection • Infrared • Leakage Current

*please contact us for details www.transformer.clinic

One Source Solutions for POWER Inspection & Engineering

MISTRAS

NUCLEAR FOSSIL ALTERNATIVE T&D Services | Systems | Products | Monitoring

MISTRAS Group specializes in Power Generation inspection and engineering services and develops products and systems that support these services. This innovative one source capability uniquely qualifies MISTRAS as a global industry leader.

- NUCLEAR INSPECTION SERVICES • TRADITIONAL INSPECTION SERVICES
- PRODUCT & SYSTEMS SOLUTIONS • TRADITIONAL & ADVANCED NONDESTRUCTIVE TESTING (NDT)
- ACOUSTIC EMISSION (AE) SOLUTIONS • CONTINUOUS MONITORING SOLUTIONS • MATERIALS TESTING
- PIPING/MECHANICAL AGING MANAGEMENT PROGRAMS • WINDTURBINE COMPOSITE REPAIRS
- PREDICTIVE MAINTENANCE SERVICES (PDM) • GENERAL ENGINEERING SERVICES
- ASSET INTEGRITY MANAGEMENT SERVICES (AIMS) • PLANT CONDITION MANAGEMENT SOFTWARE (PCMS)
- MECHANICAL/PIPING INTEGRITY ENGINEERING • THIRD PARTY QUALITY ASSURANCE
- CENTERS OF EXCELLENCE (PROVIDING BEST PRACTICES, RESEARCH, SUPPORT AND TRAINING)

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