Thermography

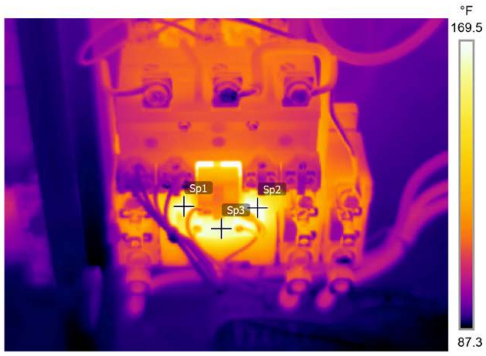
NECI uses infrared thermography to identify hot spots so that loose wires or other defects can be corrected before they cause unscheduled downtime.

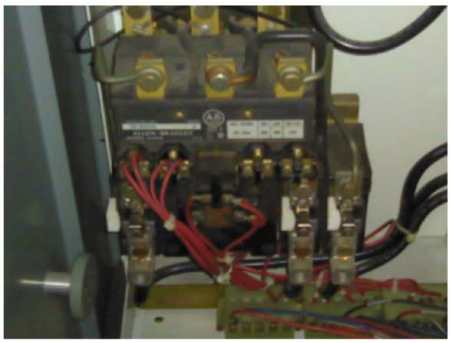
Heat can be an indicator of poor equipment performance, and infrared imaging is a key component of any predictive maintenance program. However, with tight resources, sometimes it is impossible to find time to check the temperature of critical equipment.

NECI offers a plant- or facility-wide thermography survey, where our trained field experts will use state-of-the-art thermal imaging equipment to check critical electrical or rotating equipment, such as:

- Electrical cabinets
- Breakers
- Motor control centers
- Pumps
- Motors
- Other equipment with potentially hot contact points

Thermography surveys identify hot spots that are indicators of defects. Surveys can be done as part of an ongoing service program, where NECI monitors operating conditions over time, capturing a data record that will enable us to identify any potential issues or unusual conditions that may emerge during the course of normal operation. After each survey, a report is provided documenting defects found and recommended actions.





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Comprehensive Services for Continuous Improvement

PREDICTIVE SERVICES
Vibration Analysis
Oil Sampling/Analysis
Ultrasonic Inspections
Infrared Thermography
Onsite Services and Remote Analysis of User-Collected Data
Instrument and Control Valve Diagnostics Programs

CORRECTIVE SERVICES
Shaft Laser Alignment
Dynamic Balancing
Mechanical Repair
Belt/Sheave Laser Alignment
Bearing Replacement
Shaft Grounding Ring Installation
Cool BLUE® Motor Bearing Protection

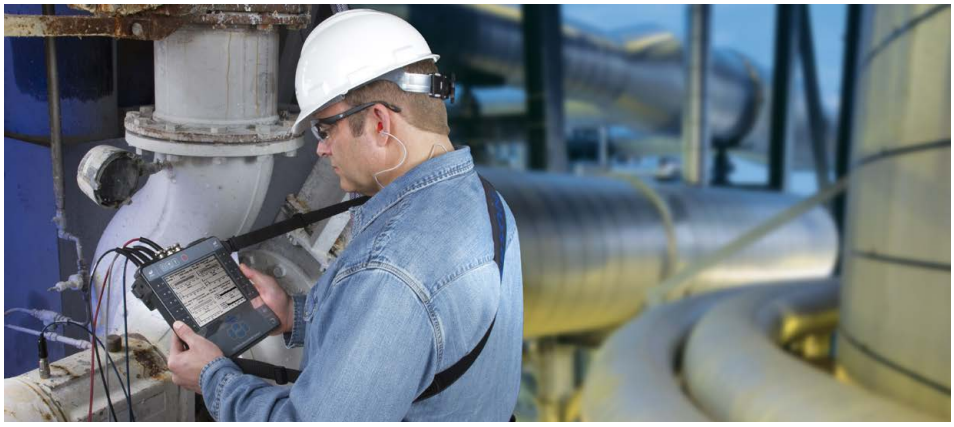
EDUCATION AND TRAINING
Reliability Seminars
Vibration Certification
Software Training
Lubrication Seminars
Onsite PdM Mentoring

PROFESSIONAL SERVICES
Precision Lubrication Benchmarking and Lubrication Room Design
ODS and Modal Analysis
Motion Amplification Analysis for Troubleshooting Structural Issues

RELIABILITY CONSULTING SERVICES
Asset Master Data
PM Optimization
CMMS Optimization
FMEA Library
IIoT Solutions for Prescriptive Maintenance Using Machine Learning and AI

INSTALLATION AND STARTUP SERVICES
Wireless Vibration System Startup and Commissioning
Continuous Turbine Protection System Startup and Commissioning
Installation of Permanent Accelerometers
IntelliSAW System Startup and Commissioning in Medium Voltage Electrical Cabinets and Bus Ducts

NECI PARTNERS
DES-CASE
EMERSON
CoolBLUE Motor Bearing Protection
ue SYSTEMS INC
IntelliSAW An Emerson Company
FLIR
RDI TECHNOLOGIES



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