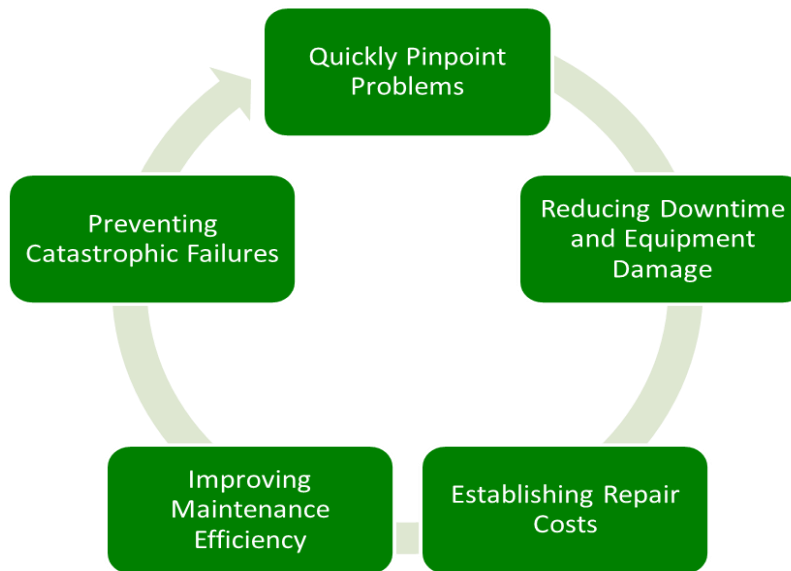




RICHARDSON
BUILDING DIAGNOSTICS
COMPREHENSIVE ENERGY SOLUTIONS

ITI ELECTRO-MECHANICAL

Infrared electro-mechanical surveys are saving millions of dollars for facility engineers. **Richardson Building Diagnostics** specializes in conducting infrared surveys that can substantially reduce your operating, testing and maintenance costs and improve your overall profitability by:



Excess Heat = Trouble Ahead

Excess heat means trouble for electrical systems. High temperatures can indicate several major problems with electrical equipment, including excessive electrical resistance, failing components, ground faults, or short circuits. Finding these problems and failures may prevent costly repairs or even catastrophic failures. Visual and manual inspections are not sufficient for detecting these problems, but infrared technology is an accurate and cost-effective way to quickly locate the underlying problems.

Professional Thermography: Fast, Accurate Detection

Richardson Building Diagnostics uses cutting-edge infrared technology to detect problems that can compromise the safety and reliability of your electrical systems. Our Thermographers can quickly pinpoint any issues and develop a comprehensive report of any thermal stresses in your operating equipment.

Any inspection using infrared Thermography can be conducted during your normal operations; there is no interruption necessary. Inspection is best conducted during normal workloads and operating conditions, so production can carry on normally while any problems are detected. Our survey can identify in "real time" any emerging problems that may exist.



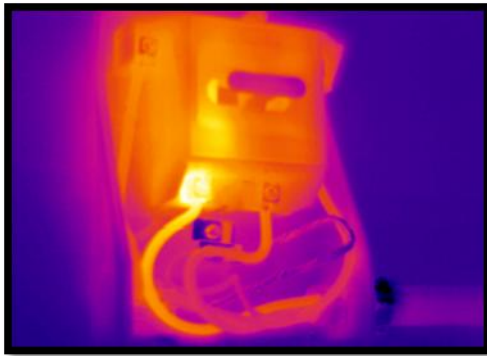
RICHARDSON

BUILDING DIAGNOSTICS

COMPREHENSIVE ENERGY SOLUTIONS

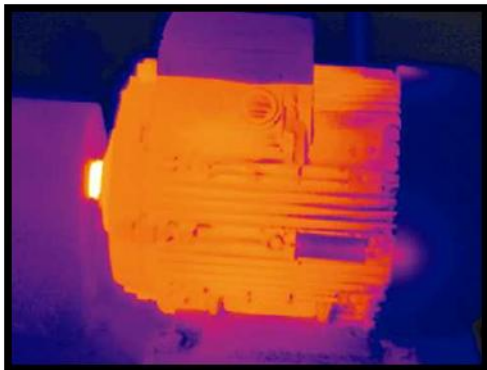
Pinpoint Hot Spots in Electrical Systems

- Reduce down time and increase profits
- Substantially reduce unscheduled outages and losses
- Reduce electrical energy costs by increasing energy efficiency
- Proactive, predictive approach avoids unscheduled maintenance
- Reduce labor costs by targeting problem



Pinpoint Hot Spots in Rotating Equipment

- Identify overheating motors, bearings, couplings, shafts, belts, U-joints, etc.
- Target problems due to misalignment, overloaded, poor lubrication
- Substantially reduce risk of catastrophic equipment failure
- Proactive, predictive approach avoids unscheduled maintenance
- Cut costs and improve profits by reducing down time





RICHARDSON
BUILDING DIAGNOSTICS
COMPREHENSIVE ENERGY SOLUTIONS

Equipment Recommended for Infrared Surveys:

<i>Transformers</i>	<i>UPS Systems</i>	<i>Breakers</i>
<i>Bushings</i>	<i>Motor Controllers</i>	<i>Contractors</i>
<i>Coolant Flow</i>	<i>Fuses</i>	<i>Motors</i>
<i>Switchgear</i>	<i>Power Panels</i>	<i>Generators</i>
<i>Capacitors</i>	<i>Lighting Panels</i>	<i>Transfer Switches</i>
<i>Bus Ducts</i>	<i>AC/DC Drives</i>	<i>Disconnects</i>
<i>Main Breakers</i>	<i>Splices</i>	<i>Bearings</i>