

# FCCI Thermography Services

While routine equipment inspections and preventative maintenance can reduce failures, they cannot always identify hidden signs of an imminent breakdown. Infrared thermography is a powerful preventative maintenance and risk control tool that can identify problems before they cause damage, reducing downtime and extending the life of your equipment.

**Not all hot spots indicate a problem, but thermography is an effective tool for identifying overheating problems like:**



*Overheated Breaker Connection*



*Overheated Transformer Bushing*



*Overheated Motor*

## POWERFUL RISK CONTROL TOOL

All electrical and mechanical equipment radiates heat. Infrared thermographic cameras detect thermal radiation and measure the temperature differences between surfaces, converting the information into an image or "heat signature." This technique can pinpoint systems that need additional inspection or maintenance, resulting in fewer breakdowns and helping improve overall production and profitability.

Abnormal or unexpected thermal patterns typically indicate a problem with the equipment, such as:

- Loose electrical connections
- Overloaded circuits or phases
- Deteriorated or damaged insulation
- Bearing failure
- Insufficient lubrication
- Steam leaks

The general recommendation is that manufacturers and similar businesses perform infrared imaging annually. Recommendations for other businesses vary based on number and severity of findings, but infrared imaging should be performed at least every three years as part of a quality electrical preventative maintenance program.

## FCCI THERMAL SCANNING

FCCI Thermal Scanning is available to policyholders as part of our property evaluation process. The service is conducted on-site by an FCCI Risk Control consultant using a thermal imaging device. Electrical equipment, covered panels and breaker fronts are scanned to identify potential electrical deficiencies. If any abnormal or unexpected thermal patterns or "hot spots" are discovered, the policyholder will be referred to a qualified electrician for further examination or to Hartford Steam Boiler (HSB) for a Level II comprehensive thermographic survey.

## HSB LEVEL II SURVEY

The HSB Level II thermography program is a more comprehensive assessment conducted by Level II certified thermographers. HSB has been conducting thermographic surveys since 1983 for many types of businesses. FCCI offers this program in partnership with HSB when indicated as a higher-level strategic service.

**For more information on how your business can benefit from FCCI & HSB thermography services, contact your FCCI Risk Control consultant.**

A thermography survey and the resulting report do not purport to identify all hazards. By offering this service and issuing the report, neither HSB nor FCCI makes any warranty, expressed or implied, concerning the contents of the report. Neither company nor their employees shall be held liable in any manner (other than the liability that may be expressed in any insurance policy that may be issued by either company) for personal injury or property damage or loss of any kind arising from or connected with this inspection.



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