



Commercial & Industrial Applications

Thermography – Avoid Unplanned Outages and Shutdowns.

What is Thermography?

Thermal Imaging is the use of an infrared imaging camera to “see” and “measure” thermal energy emitted from an object. Thermal or infrared energy is light that is not visible to the human eye, but is part of the electromagnetic spectrum that we perceive as heat. Every object, even very cold ones, emit infrared energy.

Thermal imaging cameras capture images based on the amount of infrared energy emitted by an object, and as most objects change temperature before they fail, this imaging can be a vital tool for analyzing the condition of objects in many environments.

This can cover a great many applications, from electrical system inspections, mechanical equipment inspections and functionality trending, to heat loss, water intrusion and overall building energy efficiency.

Cascade Thermal Imaging is one of the very few companies in the NW to offer commercial, industrial and residential IR inspection services statewide.

And from a predictive maintenance standpoint IR should play an important part in your overall PdM program, as it will eliminate unplanned down time and save you significant amounts of time and money.

Call Today For a FREE Demonstration.

- ITC Certified Thermographers
- Experienced & Licensed Electricians

(425) 861-3887
(800) 953-0226

6312 150th Ave NE
Redmond, WA 98052

Insured

www.cascadethermal.com



Cascade Thermal Imaging can save you time and money by pinpointing problem areas non-invasively.

ELECTRICAL SYSTEMS

- Power generation inspections
- Sub-Station Electrical inspections, switch gear, breakers, transformers, capacitor banks
- Motor Control Centers (MCC's)
- Electric motors, shafts and bearings
- Distribution panels
- Disconnects
- UPS & battery backup systems

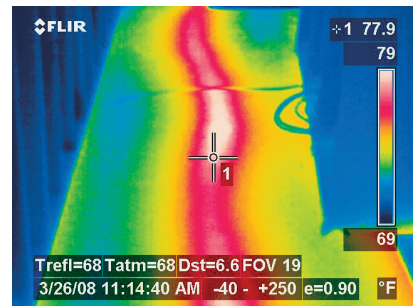
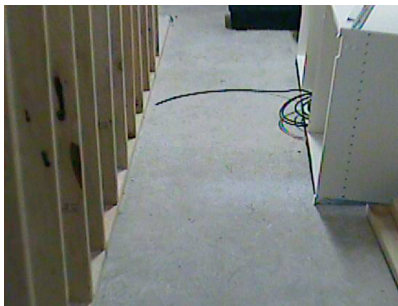
MECHANICAL SYSTEMS

- Boilers – Flame impingement/burner management
- Motors, shafts, bearings, belts, chain drives, couplings, conveyor systems
- Process equipment
- Insulation integrity

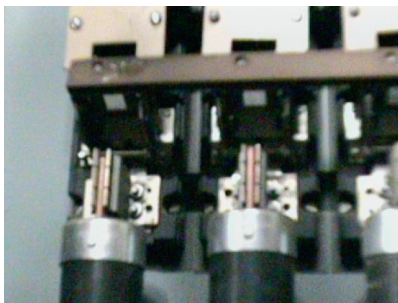
- Hydraulic systems, piping systems, air transport systems
- HVAC heating and cooling coils, heating equipment
- Gearbox monitoring and analysis
- Heat ventilation air conditioning equipment evaluation
- Heat exchangers
- Steam traps
- Locate radiant in-floor & in-wall heating systems

BUILDING ENVELOPE & STRUCTURES

- Heat/AC loss inspections
- Moisture contamination inspections
- Locate missing or damaged insulation
- Roof leak detection



Locate radiant in-floor & in-wall heating systems



Electrical inspections – switch gear, breakers, transformers, capacitor banks



Inspect distribution panels.