



Scope of Work – Infrared Scanning

Introduction:

The scope of work of the Infrared Scan is limited to the use of the Thermal Imaging Camera to perform a non-invasive and non-destructive examination.

We provide an infrared scanning service for detection of “hot spots” in:

- Electrical reticulation systems – d/b’s, transformers.
- Plant and machinery- gears, drives, belts.
- Furnaces – hot spots caused by refractory failure.
- Kilns and driers- loss through refractories & insulation
- Refrigeration plants – insulation failure
- Motors
- In any application where a difference in temperature is an indication of a fault IR scanning will assist in identifying the fault.

An IR scan is an important part of any maintenance programme and should be carried out at least every 12 months or more regularly in the case of energy intensive operations.

Background:

Infrared scanning (IR) accurately identifies the presence of abnormal heat in electrical and mechanical systems, which can help predict equipment trouble.

Our process gives a detailed photographic record of any problems detected, action can be taken before breakdowns occur.

Objectives:

Save Money

- Prevent equipment failures
- Save on emergency repairs
- Reduce down time
- Reduce excessive energy waste
- Reduce costs
- Plan and schedule repairs
- Improve electrical and mechanical system efficiency

Save Time

- Scan live equipment in real world conditions
- Identify and prioritize areas needing preventative maintenance
- Avoid disruption of services by using non-invasive technology
- Benefit from technology that is faster and more accurate to spot problem areas
- Reduce emergency calls for maintenance crews



Improve Safety

- Identify fire hazards
- Reduce risk of catastrophic system failure

Scope to Work:

Planning an Infrared Scan requires communication between on site technicians & Dynamic Surveys. Once an order is received and the DI technician arrives on site the client should dedicate a responsible staff member to escort the Thermographer / Technician to record images using a Thermal Imaging Camera as instructed by responsible staff member.

Occupational Health and Safety

- The Thermographer will record images of the electrical systems, as instructed by a responsible member of staff, and will only operate in areas where permitted to do so by that responsible staff member.
- The Thermographer will not handle electrical or any other equipment and records the images from at least a meter away or from behind barriers if in place.
- The Thermographer does not need to work at heights
- The Thermographer will not bring any tools on to site (except the camera) or be using any tools on site.
- The Thermographer will adhere to all safety regulations set by the client.
- The Thermographer will wear the stipulated PPE.
- The Thermographer will not to be under the influence of alcohol, drugs or medication.
- The Thermographer will refuse to follow an instruction which he judges to be unsafe.

Tasks:

- The Thermographer will capture thermal images only of those assets he is shown by his escort.
- The Thermographer should not be left alone to navigate his way around site without a responsible member of staff.

Schedule:

Once a scan has been completed a report of faults will be compiled & sent to the responsible person on site.

A record of the visit will be kept and a re-scan will be planned as per the client's requirements.

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