

ELECTRICAL INFRARED THERMOGRAPHY REPORT

SANITIZED SAMPLE - ACTUAL FIELD FINDINGS

A client-facing example of the documentation Guardian Predictive Solutions can provide for commercial and industrial electrical infrared surveys.

DETECT. DOCUMENT. TRACK. VERIFY.

Prepared by: Guardian Predictive Solutions (GPS)

Service: Electrical Infrared Thermography / Predictive Maintenance

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Qualifications: Certified Infrared Thermography | FAA Part 107 Certified

PRIVACY NOTICE

This sample intentionally removes customer names, facility addresses, asset identifiers, and other identifying information. The thermal and visible images and technical measurements shown in the finding pages are based on actual field work supplied for this sample.

EXECUTIVE SUMMARY

Guardian Predictive Solutions uses infrared thermography to identify abnormal thermal patterns in energized electrical equipment under observed operating conditions. The purpose of the survey is to provide maintenance teams with clear, actionable condition information that can support further evaluation, corrective maintenance planning, and follow-up verification.

Sample Findings Included	2
Severity Shown	Minor
Equipment Examples	Fused disconnect; control-panel / main-switchboard connection
Deliverables Demonstrated	Thermal + visible images, condition data, severity, possible cause, recommended next action

WHAT THE CLIENT RECEIVES

- Thermal and corresponding visible-light documentation.
- Equipment / component identification and location context.
- Temperature data and observed thermal comparison information.
- Severity / priority classification appropriate to the observed condition.
- Possible-cause language that distinguishes observation from diagnosis.
- Recommended next actions for qualified maintenance personnel.
- Optional post-repair infrared verification under observed operating conditions.
- An organized equipment inventory and inspection history for recurring programs.

Important: Infrared thermography is a condition-assessment tool. A thermal pattern alone does not establish the root cause of an electrical condition. Corrective work and electrical diagnosis should be performed by appropriately qualified personnel.

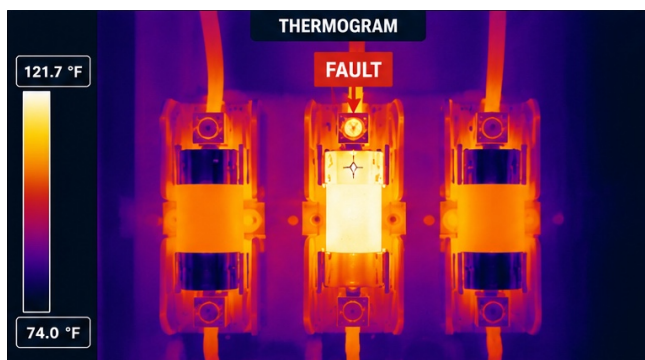
SURVEY APPROACH

01 DETECT	Survey applicable energized electrical equipment under observed operating conditions using infrared thermography.
02 DOCUMENT	Capture thermal and visible images and record equipment identification, temperature information, and relevant observations.
03 TRACK	Organize findings and equipment information so recurring clients can maintain inspection history over time.
04 VERIFY	When requested, return after corrective work and document the observed post-repair thermal condition.

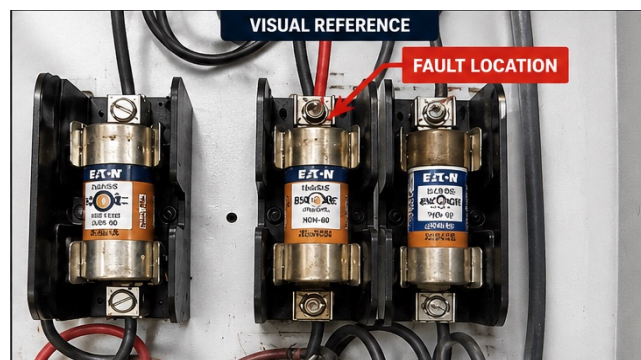
REPORTING PRINCIPLES

- **Observation first:** report what was thermally observed without overstating diagnosis.
- **Context matters:** load, ambient conditions, equipment type, emissivity, accessibility, and comparison points can affect interpretation.
- **Actionable language:** recommendations are written to help maintenance teams determine appropriate next steps.
- **Privacy:** customer-specific examples used for marketing or samples should be sanitized unless the customer has authorized disclosure.

FINDING 01 - B-PHASE LOAD-SIDE CONNECTION



THERMOGRAM

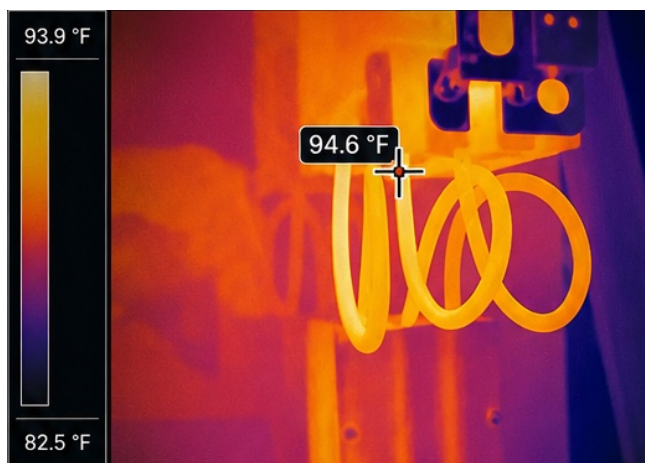


VISIBLE REFERENCE

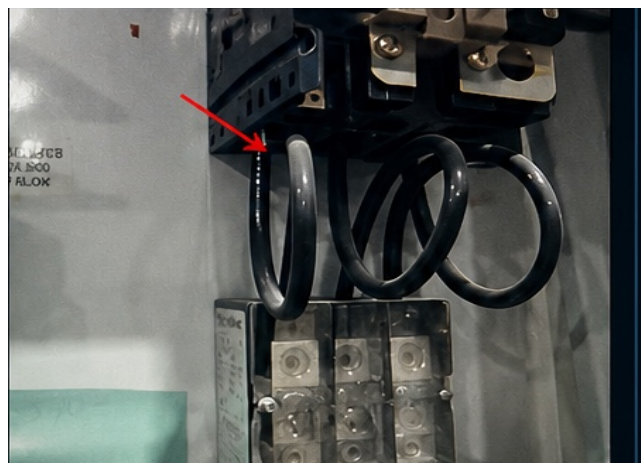
Equipment	Fused disconnect
Finding	Elevated thermal condition at B-phase load-side connection
Fault temperature	120.2 °F
Reference temperature	107.7 °F
Delta T	12.5 °F
Severity	MINOR

POSSIBLE CAUSE	RECOMMENDED NEXT ACTION
Loose, contaminated, or oxidized termination may contribute to elevated heating at the fused-disconnect B-phase load-side connection.	Have qualified personnel evaluate the connection. As appropriate, de-energize using approved procedures, disassemble, clean and tighten component(s), check surrounding components for damage, and review circuit loading / balance.

FINDING 02 - A-PHASE LINE-SIDE CONNECTION



THERMOGRAM



VISIBLE REFERENCE

Equipment	Control-panel / main-switchboard connection
Finding	Early-stage elevated heating at A-phase line-side wire lug
Fault temperature	94.6 °F
Reference temperature	92.0 °F
Delta T	2.6 °F
Component rating	30 A
Severity	MINOR

POSSIBLE CAUSE	RECOMMENDED NEXT ACTION
Loose, contaminated, or oxidized connection may contribute to the observed early-stage resistive heating at the A-phase line-side wire lug.	Monitor and have qualified personnel evaluate the connection. As appropriate, de-energize using approved procedures, disassemble, clean and tighten component(s), inspect surrounding components for damage, and review circuit loading / balance.

FROM ONE-TIME SURVEY TO RELIABILITY PROGRAM

GPS can support a one-time baseline survey or an ongoing annual infrared program. Recurring programs can maintain an organized equipment inventory, inspection history, previous findings, next-due dates, and post-repair verification records where applicable.

BASELINE SURVEY	ANNUAL IR PROGRAM	CONTRACTOR SUPPORT
Establish current condition and document applicable electrical assets.	Repeat inspections with equipment tracking and historical continuity.	Dedicated thermography, client-ready reporting, and optional post-repair verification.

READY TO DISCUSS YOUR FACILITY?

Guardian Predictive Solutions
240-328-3537
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DETECT. DOCUMENT. TRACK. VERIFY.

This sample is for capabilities demonstration only. Customer identity and facility-specific identifying details have been removed. Final scope, equipment coverage, reporting format, and pricing are determined by the specific project.