



INFRARED THERMOGRAPHIC INSPECTION REPORT

Electrical Distribution and Control Equipment Survey

Prepared For:

Sample Manufacturing Facility

Location:

Pennsylvania

Aug 12, 2026

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Inspection Summary

Equipment Inspected

66

Findings Documented

4

Priority Summary

HIGH

1

MEDIUM

2

LOW

1

CRITICAL / HIGH PRIORITY FINDINGS	
Data Page	Equipment
4	Dust Collection System Main Disconnect

Priority Classifications

High Priority	Over 100° Delta T. Schedule corrective action immediately.
Medium Priority	26-100° Delta T. Schedule corrective action soon.
Low Priority	0-25° Delta T. Schedule corrective action as convenient.
Informational	Documented condition with no assigned thermal priority.

About the Report
This report documents the results of an infrared inspection of accessible electrical equipment under observed operating conditions. Thermal anomalies are identified on the data pages that follow.

Inspection Limitations
Infrared inspections are limited to equipment that is accessible, energized, and operating under sufficient load at the time of inspection. Covers, guarded areas, production conditions, and safety restrictions may limit access.

Standards and Guidelines
NFPA 70B requires electrical maintenance programs to include periodic infrared inspections. Annual inspections are required unless an alternate interval is justified by the equipment owner's maintenance program.

Report Organization
Equipment pages list inspected equipment in inspection order. Items marked See Data Page correspond to the numbered data pages that follow.

Equipment List

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Main Electrical Room	
Main service disconnect	OK
Distribution panel A	OK
Distribution panel B	OK
Air compressor No. 1 disconnect	OK
Air compressor No. 2 disconnect	OK
Production transformer disconnect	OK
Lighting panel	OK
Control power panel	OK
Motor control center A	OK
Motor control center B	OK
Emergency power panel	OK
Production Area 1	
Production line No. 1 control panel	OK
Production line No. 1 feed disconnect	OK
Conveyor No. 1 starter	OK
Conveyor No. 2 starter	OK
Hydraulic unit No. 1	OK
Hydraulic unit No. 2	OK
Process motor No. 1	OK
Process motor No. 2	OK
Machine control panel A	OK
Machine control panel B	OK
Local disconnect A	OK
Production Area 2	
Production line No. 2 control panel	OK
Production line No. 2 feed disconnect	OK
Process equipment disconnect	OK
Transfer conveyor starter	OK
Exhaust fan starter	OK
Local disconnect B	OK
Local disconnect C	OK
Control transformer panel	OK
Auxiliary equipment panel	OK
Packaging line disconnect	OK
Maintenance receptacle panel	OK

Equipment List, continued

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Process Equipment Area

Dust collection system main disconnect	OK
Dust collector fan starter	OK
Dust conveyor starter	OK
Process fan No. 1	OK
Process fan No. 2	OK
Material handling control panel	OK
Transfer conveyor No. 1	OK
Transfer conveyor No. 2	OK
Machine disconnect No. 1	OK
Machine disconnect No. 2	OK
Machine disconnect No. 3	OK

Utility Area

Compressed air system panel	OK
Ventilation fan starter	OK
Pump No. 1 disconnect	OK
Pump No. 2 disconnect	OK
Utility transformer	OK
Service equipment panel	OK
Heating equipment disconnect	OK
Exterior equipment panel	OK
Auxiliary control panel	OK
Spare disconnect No. 1	OK
Spare disconnect No. 2	OK

Warehouse and Support Areas

Warehouse distribution panel	OK
Shipping area panel	OK
Receiving area panel	OK
Office distribution panel	OK
Battery charger disconnect	OK
Fire pump controller	OK
Maintenance shop panel	OK
Exterior lighting panel	OK
Security system panel	OK
General equipment panel	OK
Future equipment disconnect	OK

Disconnect B, Air Compressor No. 2

MEDIUM PRIORITY

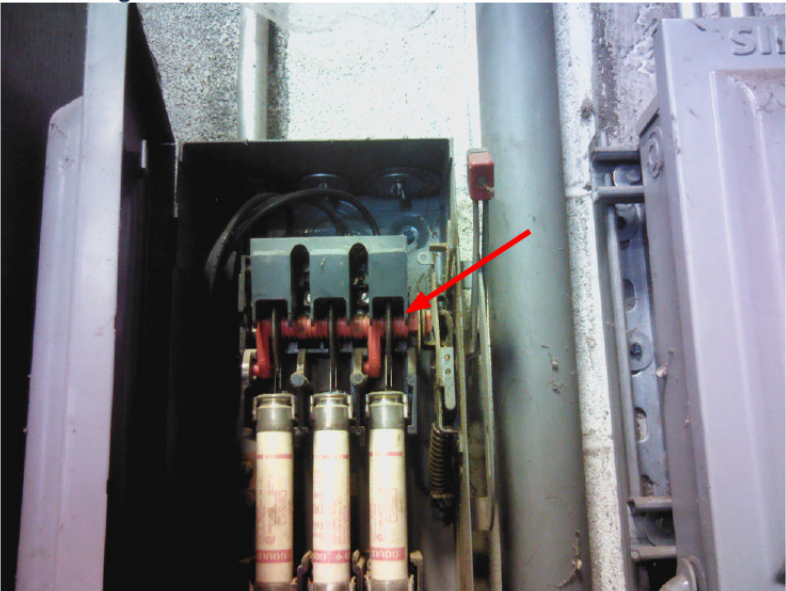
Main Electrical Room

Measured Temp 141.5 °F	Reference Temp 105.7 °F	Delta T 35.8 °F
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Thermal Image



Visual Image



Problem Observed

The right switch hardware is operating significantly warmer than comparable components. This pattern is consistent with increased resistance at the connection or contact assembly.

Recommended Action

Investigate The Switch Contacts And Hinge Areas For Signs Of Overheating, Contamination, Wear, Or Damage. Exercise The Switch If Appropriate And Inspect All Contact Surfaces. Clean, Repair, Or Replace Components As Necessary.

Notes

Production Line No. 1 Feed Disconnect

LOW PRIORITY

Production Area 1

Measured Temp
106.5 °F

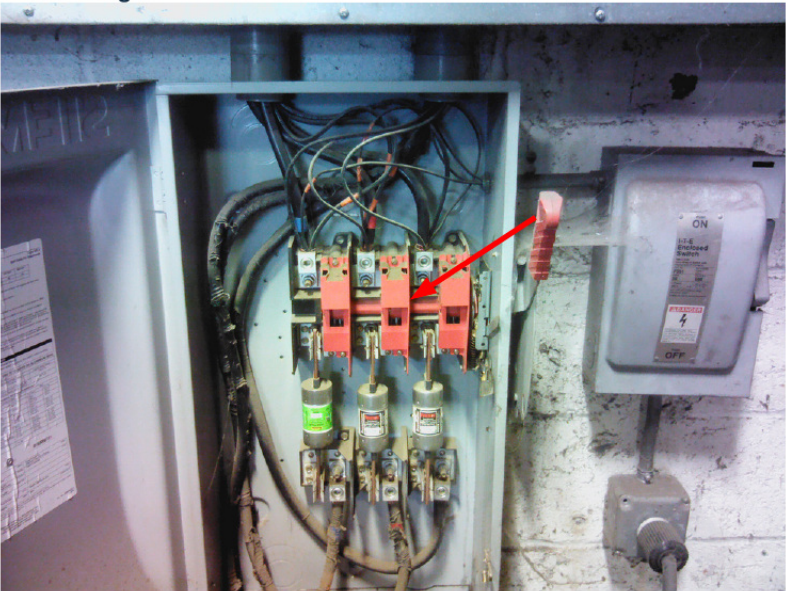
Reference Temp
90.5 °F

Delta T
16 °F

Thermal Image



Visual Image



Problem Observed

The center switch contacts exhibit abnormal heating relative to the adjacent phases. The temperature pattern is consistent with increased contact resistance.

Recommended Action

Investigate The Switch Contacts And Hinge Areas For Signs Of Overheating, Contamination, Wear, Or Damage. Exercise The Switch If Appropriate And Inspect All Contact Surfaces. Clean, Repair, Or Replace Components As Necessary.

Notes

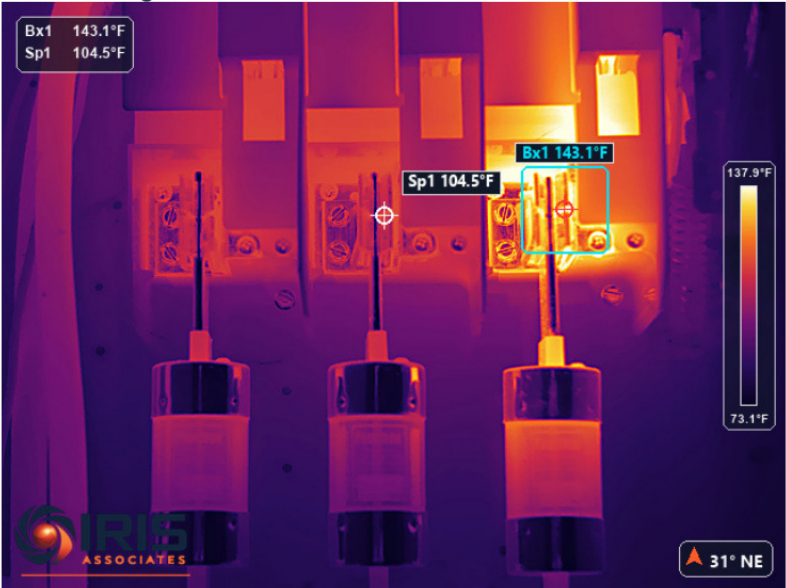
Process Equipment Disconnect

MEDIUM PRIORITY

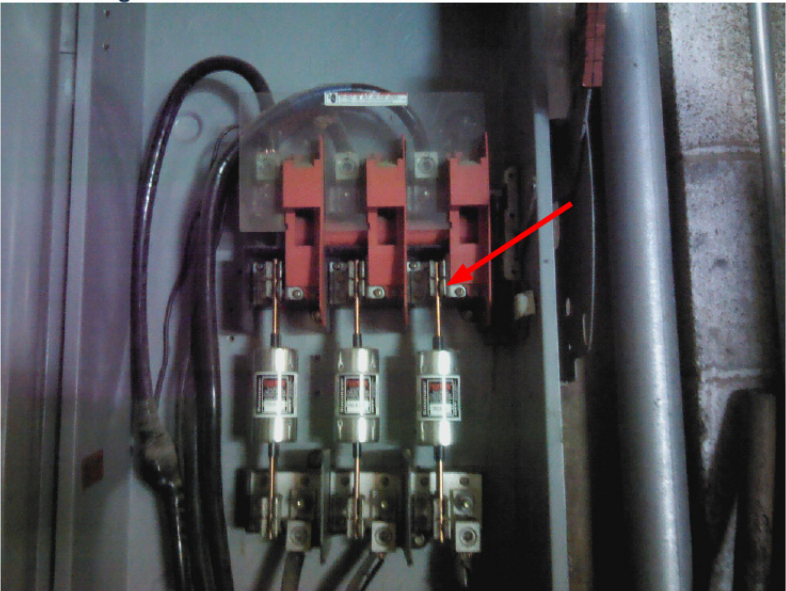
Production Area 2

Measured Temp 143.1 °F	Reference Temp 104.5 °F	Delta T 38.6 °F
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Thermal Image



Visual Image



Problem Observed

The right fuse connection is operating warmer than the comparable fuse holders. This localized heating may indicate increased resistance at the fuse clip or termination.

Recommended Action

Remove The Fuse And Inspect The Fuse Body, Fuse Holder, Clips, And Associated Hardware For Signs Of Overheating, Looseness, Contamination, Or Damage. Clean And Repair As Necessary. Verify Proper Fuse Holder Tension Before Reinstallation.

Notes

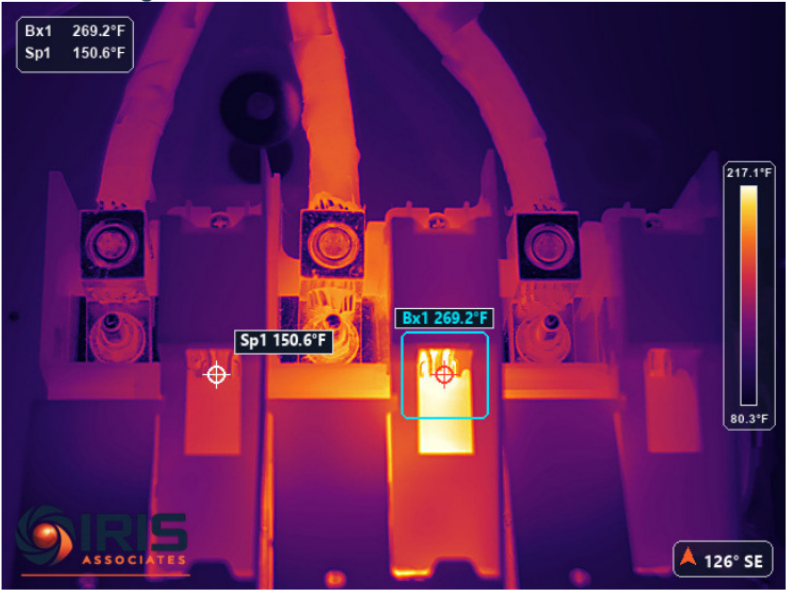
Dust Collection System Main Disconnect

HIGH PRIORITY

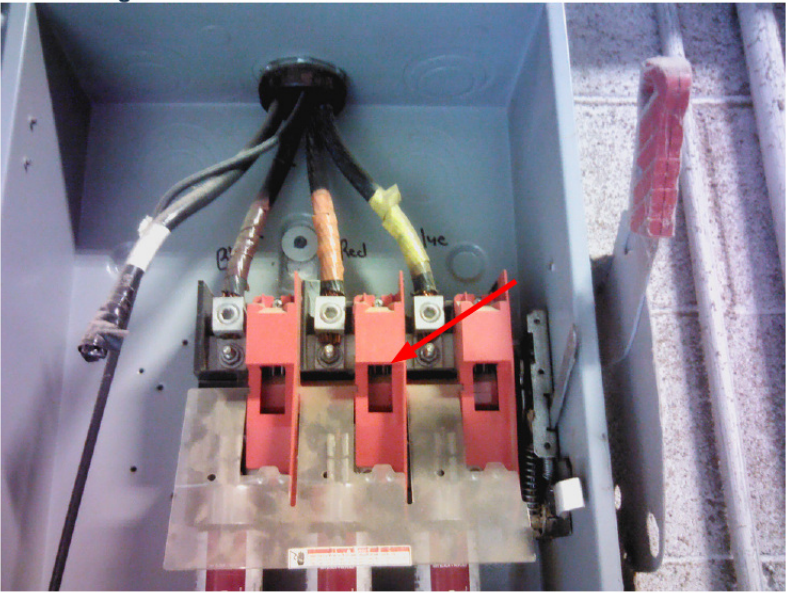
Process Equipment Area

Measured Temp 269.2 °F	Reference Temp 150.6 °F	Delta T 118.6 °F
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Thermal Image



Visual Image



Problem Observed

The center switch hardware is operating substantially warmer than comparable components. The severity and localized pattern indicate a likely high-resistance connection requiring prompt correction.

Recommended Action

Exercise The Switch If Appropriate And Inspect Hinge Contact Areas, Contact Surfaces, And Associated Hardware For Signs Of Contamination, Wear, Overheating, Or Damage. Clean And Repair As Necessary.

Notes