

Infrared Thermography Report

Gold Strike August 2021 Infrared Inspection

All electrical panels were scanned using a  P60 infrared camera. The following report only contains defects that were found during the survey. Below is our classification system for each defect included in this report. If there are any questions or comments, please feel free to contact us at any time.



employs a three-tier defect rating system:

CLASS I: A defect or defects are present that are likely to cause a problem in the long term (2-6 months). Should be addressed in the normal course of maintenance scheduling.

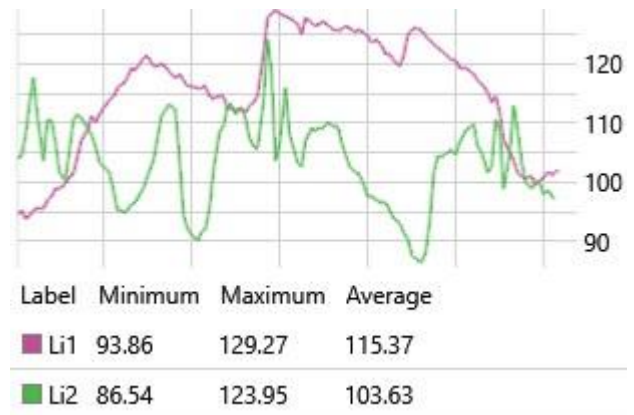
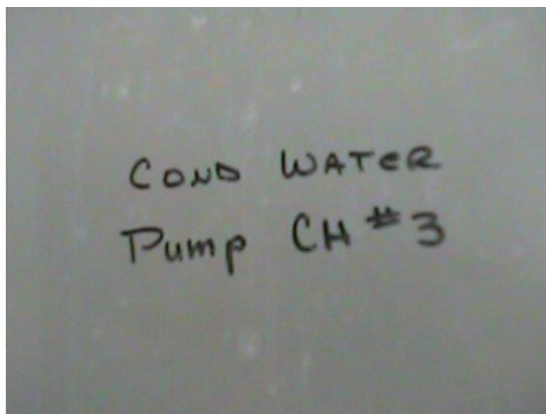
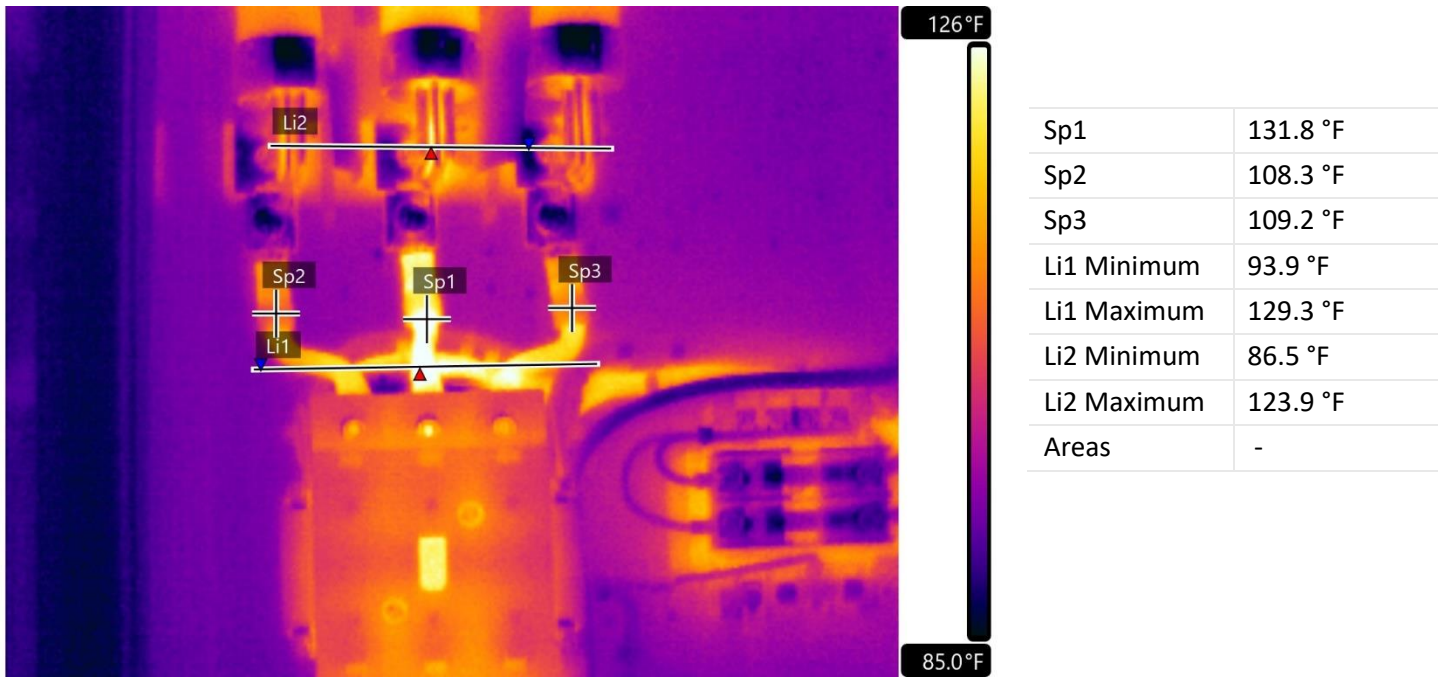
CLASS II: A defect or defects are present that are likely to cause a failure in the short term (less than 2 months). Should be addressed as soon as practical, on a high maintenance priority. Consideration should be given to increase monitoring frequency.

CLASS III: A defect or defects are present that make continued component reliability unpredictable and likelihood of secondary damage is high. Consideration should be given to an unscheduled shutdown to correct.



tests and inspects industrial machinery and equipment and makes recommendations concerning maintenance and repairs based on its experience in the field of industrial repair and maintenance. The information contained herein is provided as an opinion only, not as a guaranty or warranty of the matters discussed herein.

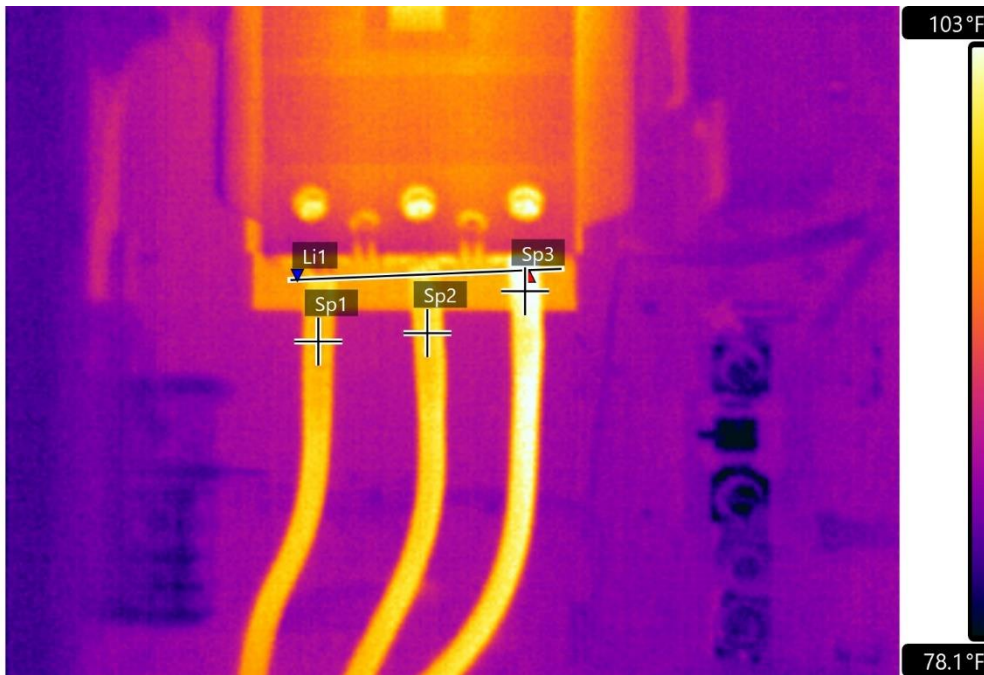
Component	B phase conductor below fuse
Equipment/Bucket ID	Chiller room motor control 13/ cond water pump ch 3



Fault	Temperature delta between phases
Defect Rating	II

Recommendations
The center phase conductor below the fuses appears to have a localized hot spot on the starter line side lug. There could be a loose connection or an unbalanced loading condition. Inspect all connections, clean and repair, or replace any defective components. Torque all lugs to specification.

Component	C phase conductor on load side of starter
Equipment/Bucket ID	



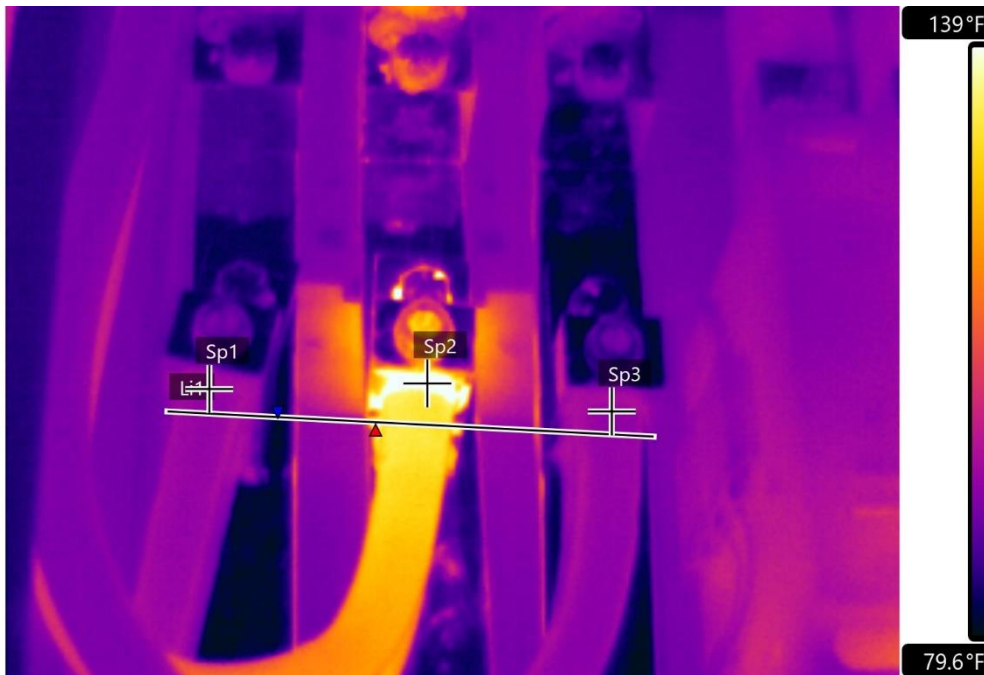
Sp1	95.2 °F
Sp2	98.2 °F
Sp3	103.4 °F
Li1 Minimum	94.3 °F
Li1 Maximum	106.9 °F
Areas	-



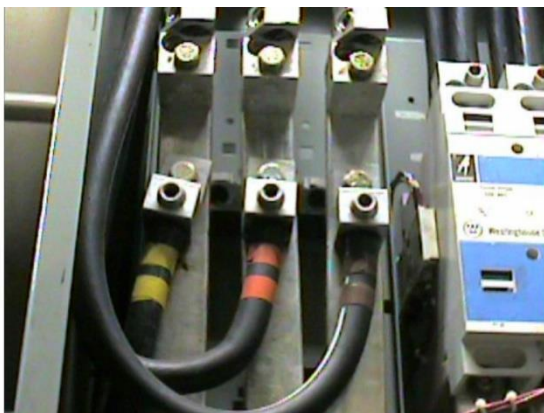
Fault	Temperature delta between phases
Defect Rating	I

Recommendations	The C phase conductor below the starter appears to have a localized hot spot on the starter load side lug. There could be a loose connection or an unbalanced loading condition. Inspect all connections, clean and repair, or replace any defective components. Torque all lugs to specification.
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Component	B phase conductor at component lug
Equipment/Bucket ID	Chiller Room/ Chiller #2



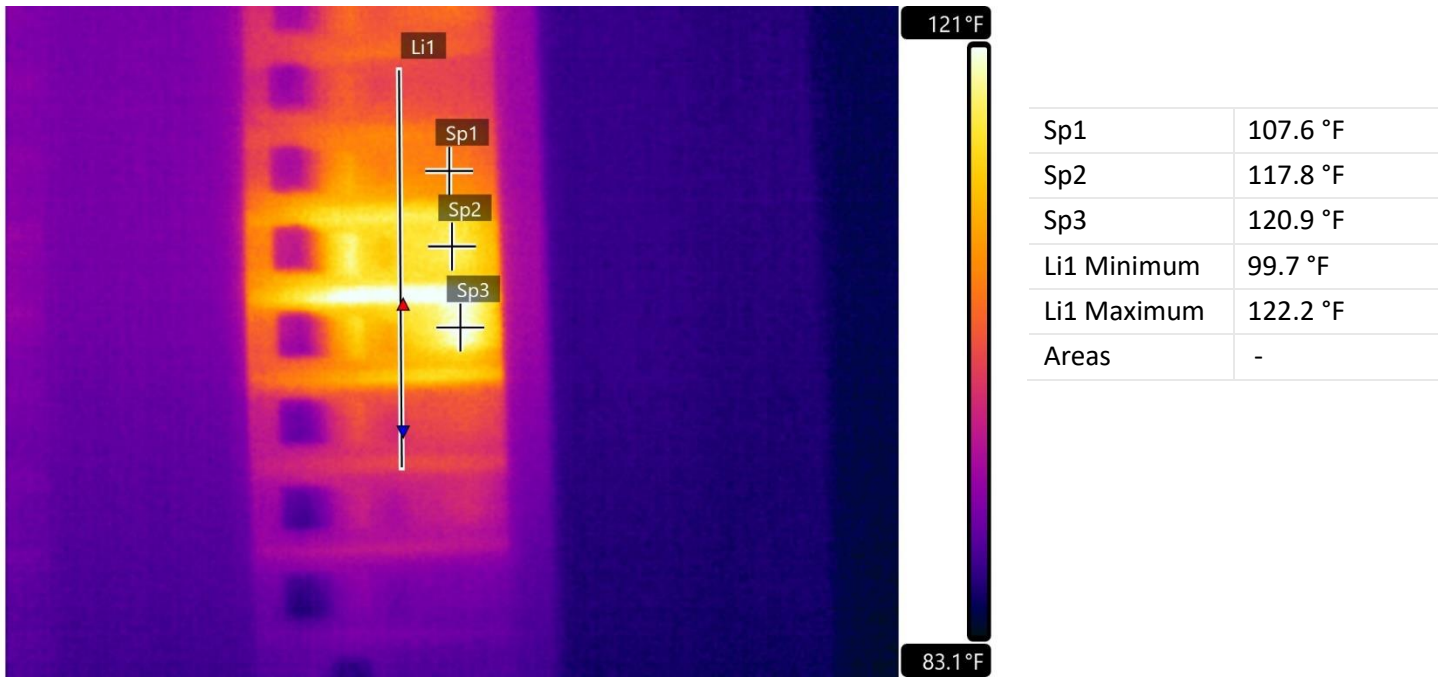
Sp1	97.2 °F
Sp2	145.0 °F
Sp3	96.7 °F
Li1 Minimum	81.8 °F
Li1 Maximum	138.5 °F
Areas	-



Fault	Large temperature delta between phases
Defect Rating	III

Recommendations	The center phase conductor appears to have a localized hot spot on the component load side lug. There could be a loose connection or an unbalanced loading condition. Inspect all connections, clean and repair, or replace any defective components. Torque all lugs to specification
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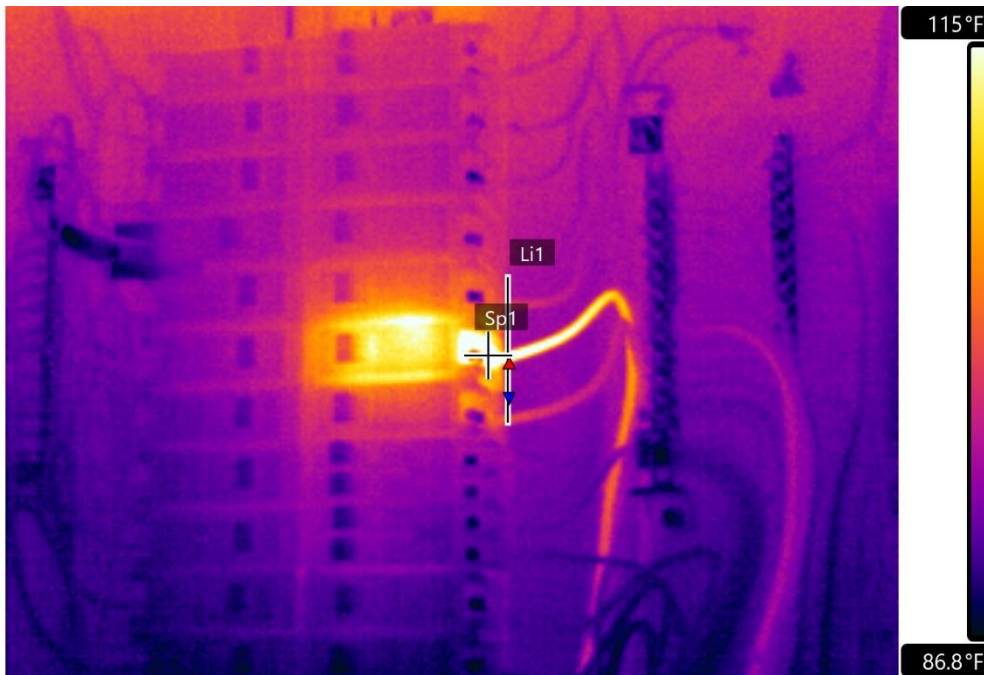
Component	Circuit Breakers 26 and 28
Equipment/Bucket ID	Casino Panel SA4



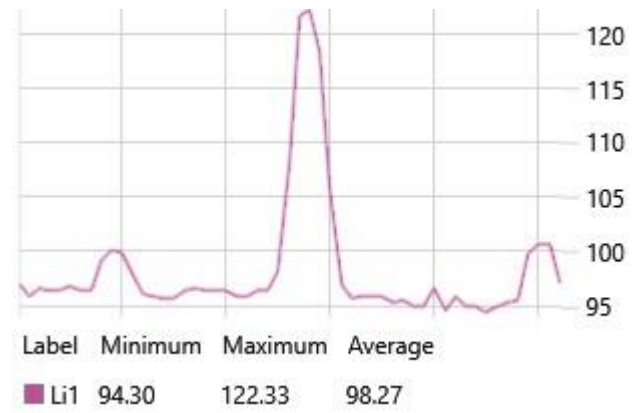
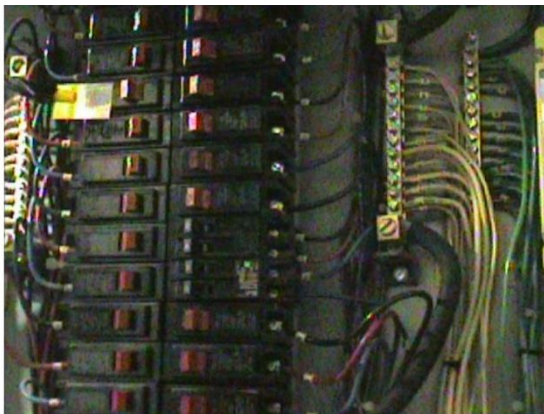
Fault	Elevated temperature delta between breakers
Defect Rating	II

Recommendations	One or possibly both circuit breakers could be defective, have loose connections or have an over current condition. Inspect all connections, clean and repair, or replace any defective components. Torque all lugs to specification suffer from multiple issues. Ensure the current does not exceed NEMA guidelines.
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Component	Circuit Breaker 12
Equipment/Bucket ID	2nd Floor Electrical Room Panel UP2E



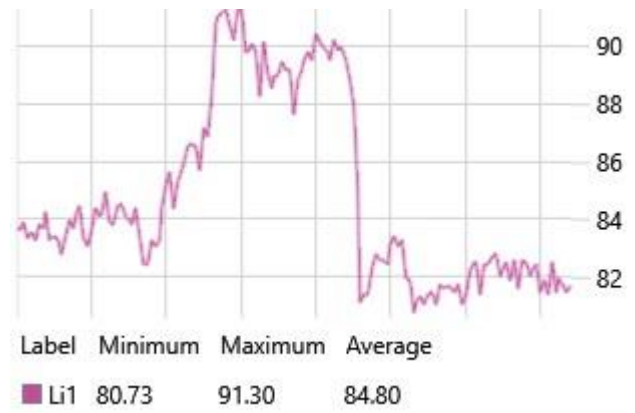
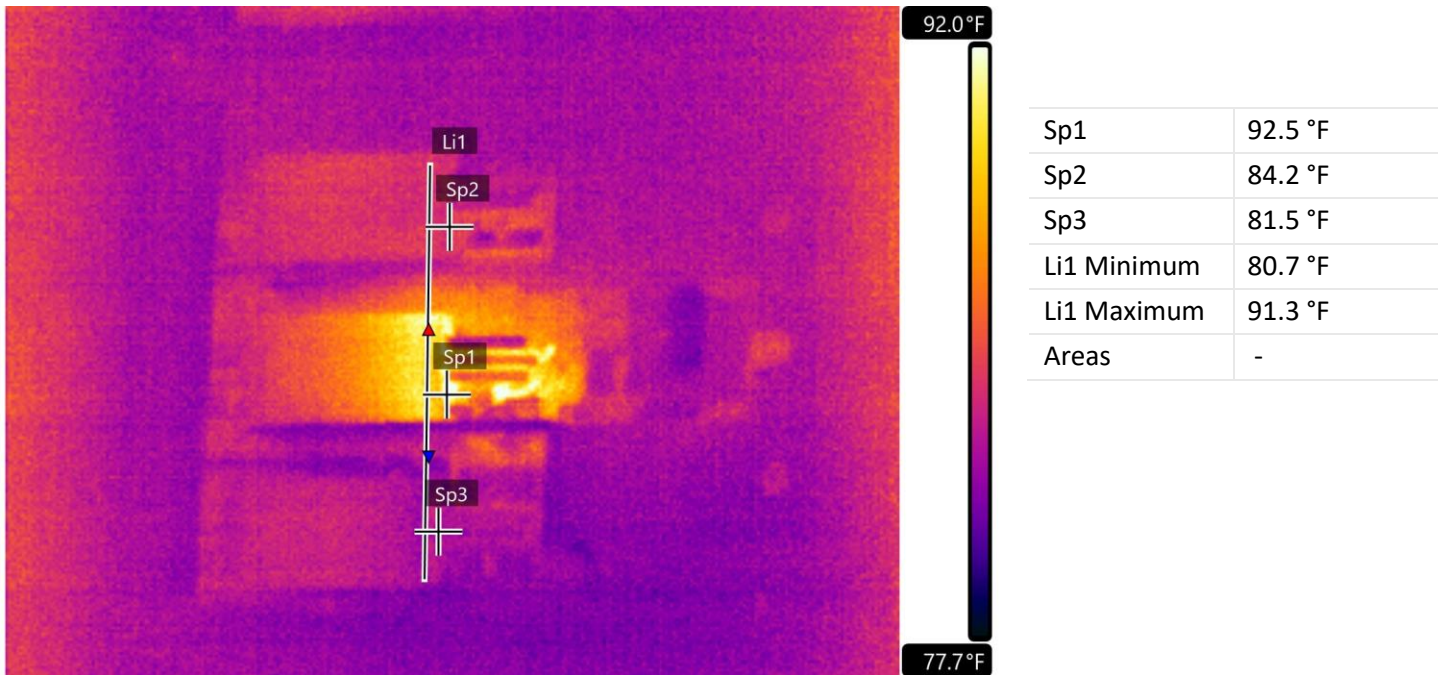
Sp1	128.1 °F
Li1 Minimum	94.3 °F
Li1 Maximum	122.3 °F
Areas	-



Fault	Temperature delta at breaker and conductor
Defect Rating	II

Recommendations	The #12 circuit breaker could be defective, have loose connections or have an over current condition. Inspect all connections, clean and repair, or replace any defective components. Torque all lugs to specification. Ensure the current does not exceed NEMA guidelines.
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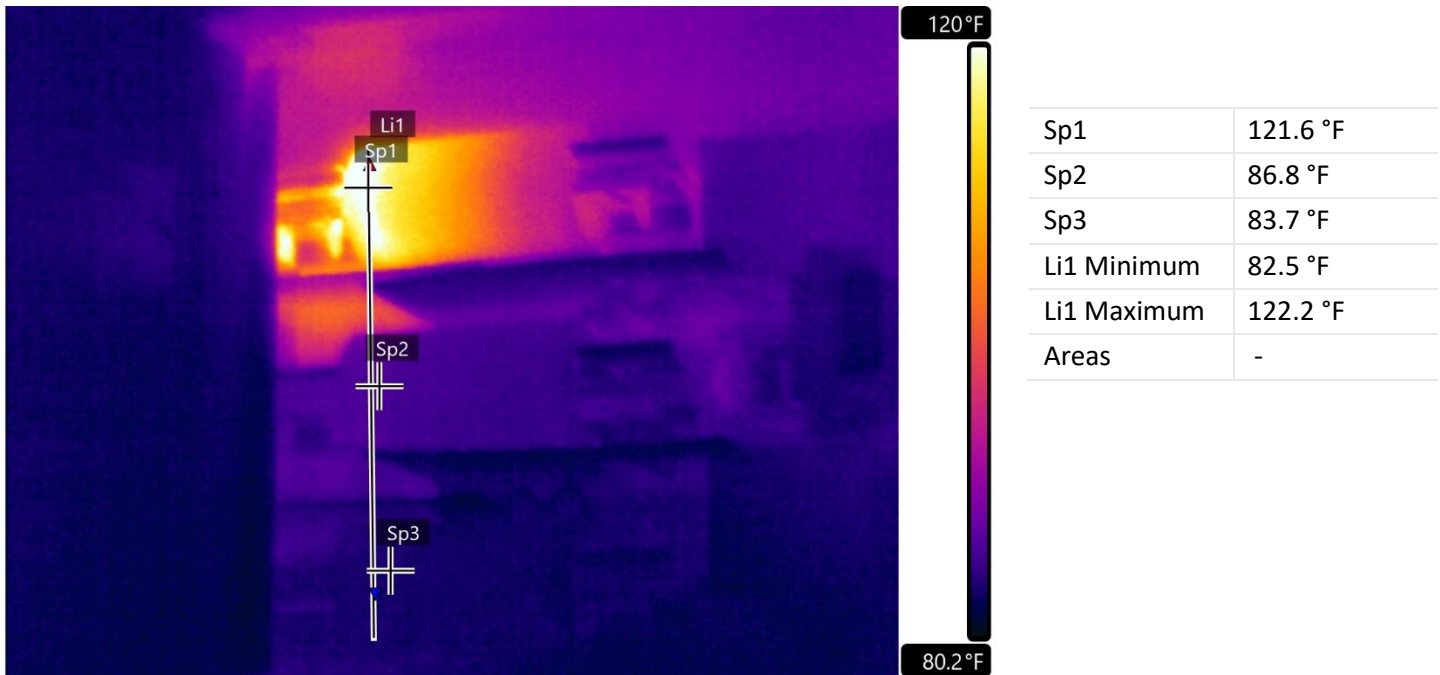
Component	Fusible Switch
Equipment/Bucket ID	Hotel Main Electrical Room MCC3 Bucket T3C



Fault	Temperature delta at B phase fuse clip
Defect Rating	I

Recommendations	There appears to be localized heating at the right side fuse clip of B phase or switch contact. Inspect all connections, clean and repair, or replace any defective components. Torque all lugs to specification
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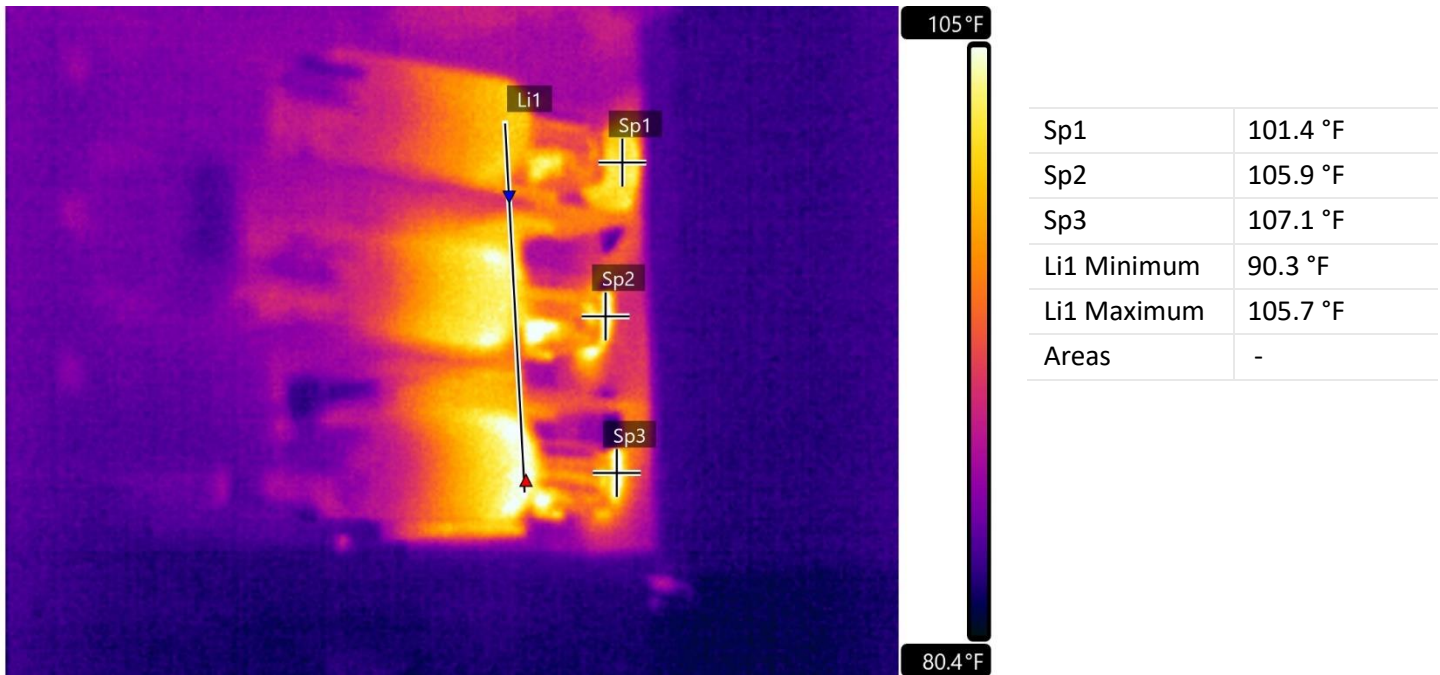
Component	Fusible Switch
Equipment/Bucket ID	Hotel Main Electrical Room Gear LSB2 panel T3L



Fault	Poor connection at A phase fuse clip left side
Defect Rating	II

Recommendations	The A phase fuse clip on the left side appears to have a localized temperature delta. We suspect poor contact at the clip or switch. Inspect and clean the fuse clip contact, switch contacts; or replace the unit as needed. Torque all connectors.
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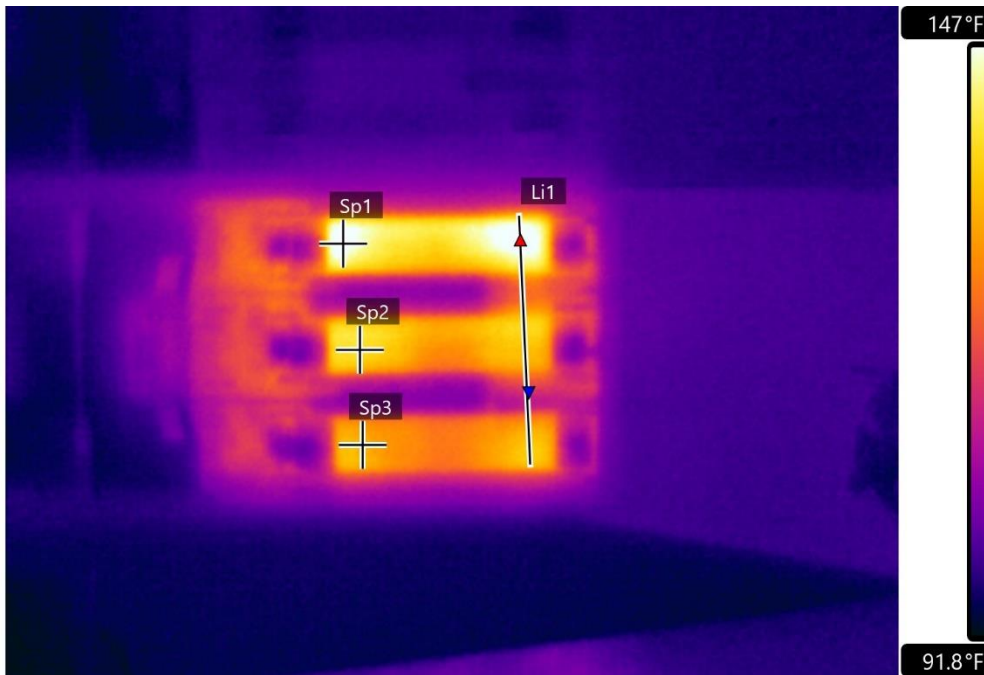
Component	Fusible Switch
Equipment/Bucket ID	Hotel Main Electrical Room Gear HSB1 Bucket HB-1



Fault	Slight temperature delta at fuse clips
Defect Rating	I

Recommendations	There is a slight temperature delta between phases at the right side fuse clips. Inspect and clean the fuse clips and switch contacts.
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Component	Fuse clips
Equipment/Bucket ID	Hotel Roof Distribution Board EHDBR Bucket AHU 1



Sp1	148.1 °F
Sp2	138.1 °F
Sp3	132.3 °F
Li1 Minimum	112.3 °F
Li1 Maximum	149.2 °F
Areas	-



Fault	Poor fuse clip connection
Defect Rating	I

Recommendations	Loaded circuit shows possible high resistive fuse connections for the A phase. Inspect and clean the fuse clips and fuses.
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Summary

Image Date&Time	Page number
8/4/2021 5:45:43 AM	3
8/4/2021 6:10:00 AM	4
8/4/2021 6:15:16 AM	5
8/4/2021 7:31:03 AM	6
8/4/2021 10:26:17 AM	7
8/5/2021 5:35:28 AM	8
8/5/2021 5:39:19 AM	9
8/5/2021 2:10:03 PM	10
8/5/2021 7:18:51 AM	11

This concludes our survey report. Please feel free to contact us at any time for question or comments.

Thank you for your business,

David W. Shook



ITC Certified Level I Infrared Thermographer

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