

Infrared Thermography Report

Fitzgerald's Hotel and Casino

June 2021

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.

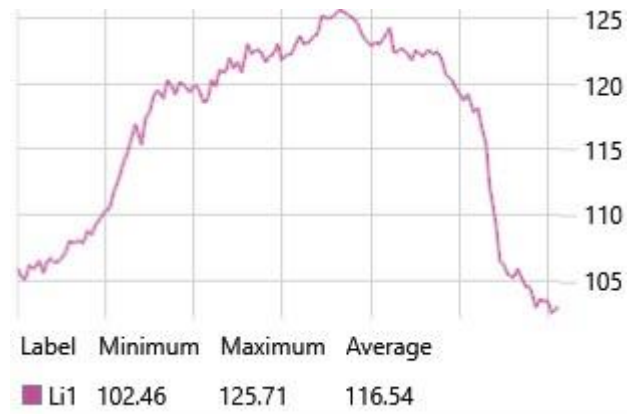
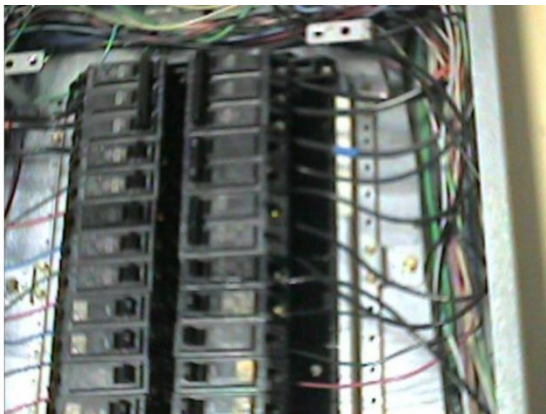
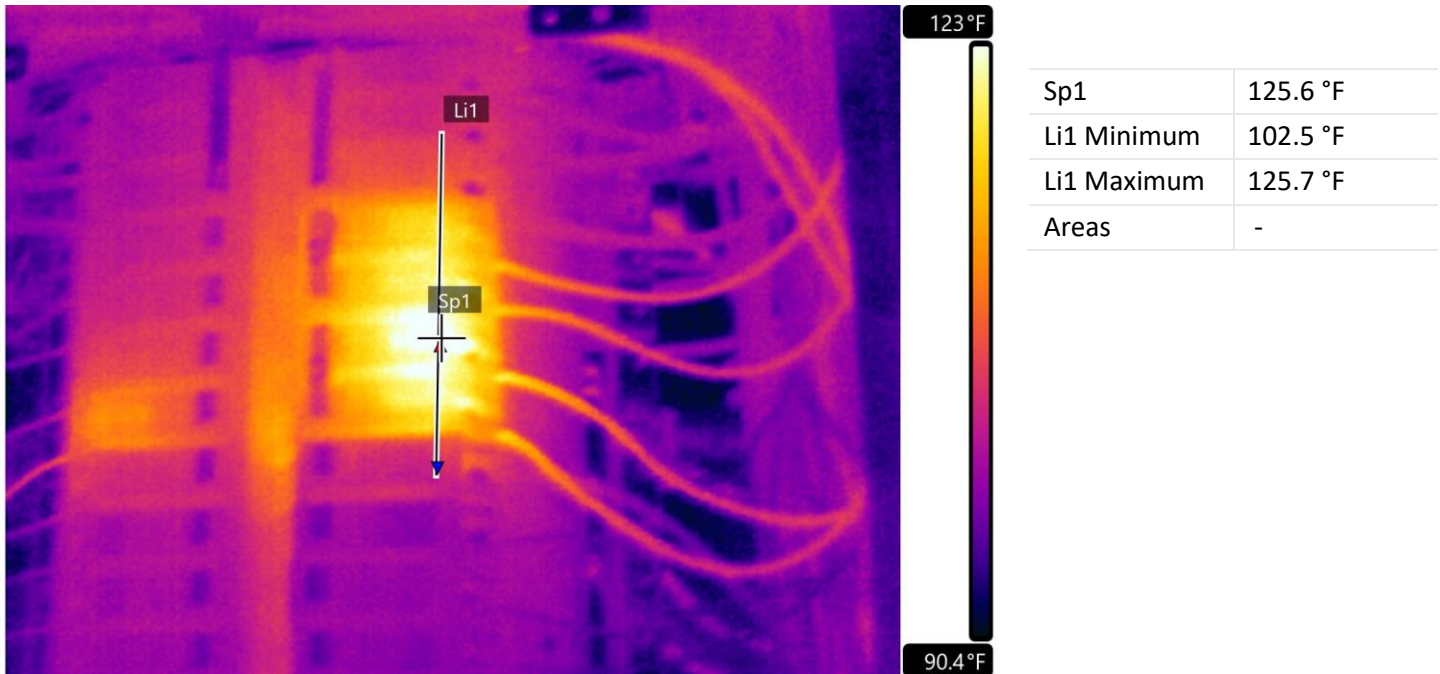
CLASS II: A defect or defects are present that are likely to cause a failure in the short term (less than 2 months). Should be addressed as soon as practical, on a high maintenance priority. Consideration should be given to increase monitoring frequency.

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.

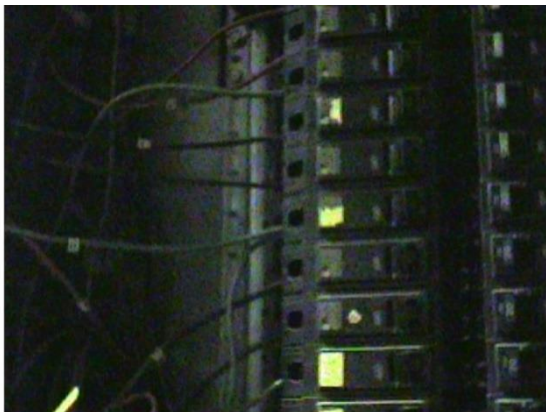
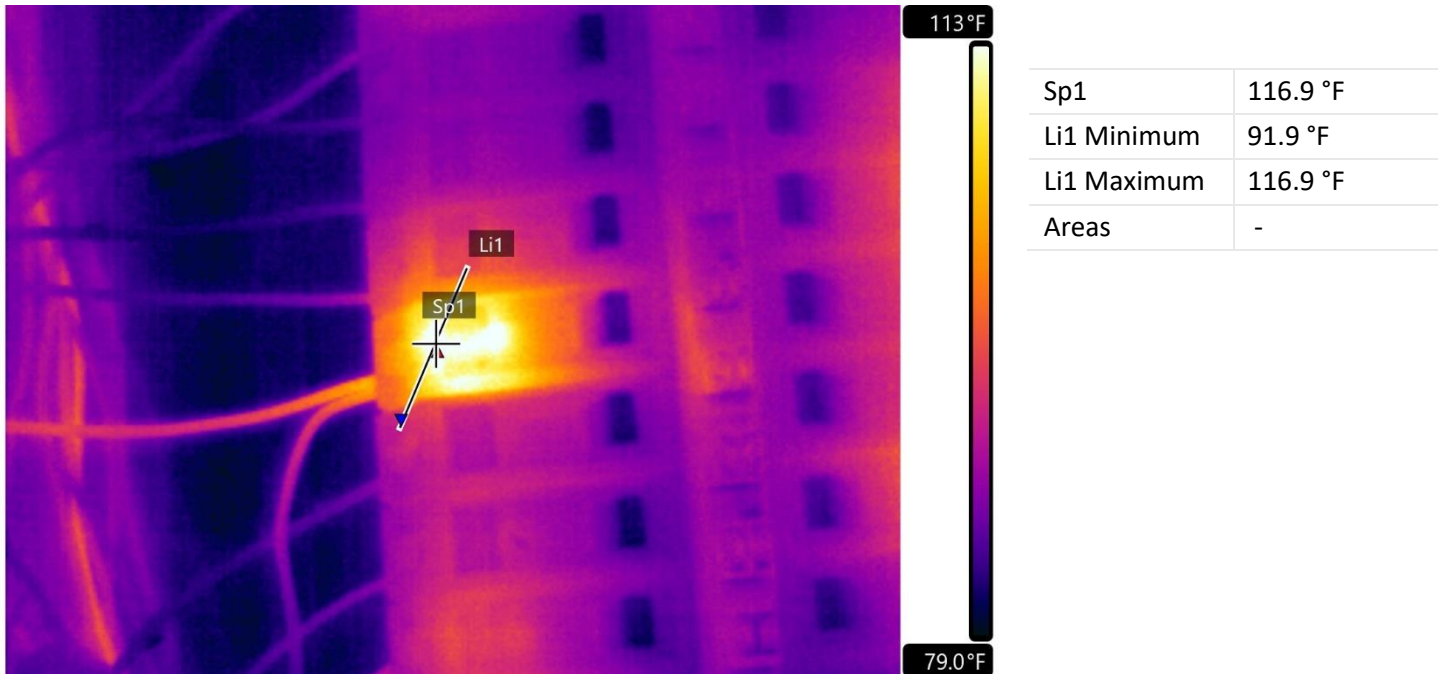
Component	Gen Block Heater Circuit Breaker slot 12/14
Equipment/Bucket ID	Buzz Room Panel SBLA-1



Fault	Weak breaker possible connection issue
Defect Rating	Class I

Recommendations	Replace the breaker and ensure all connections are clean and tight. Check adjacent circuit breaker connections and current draw.
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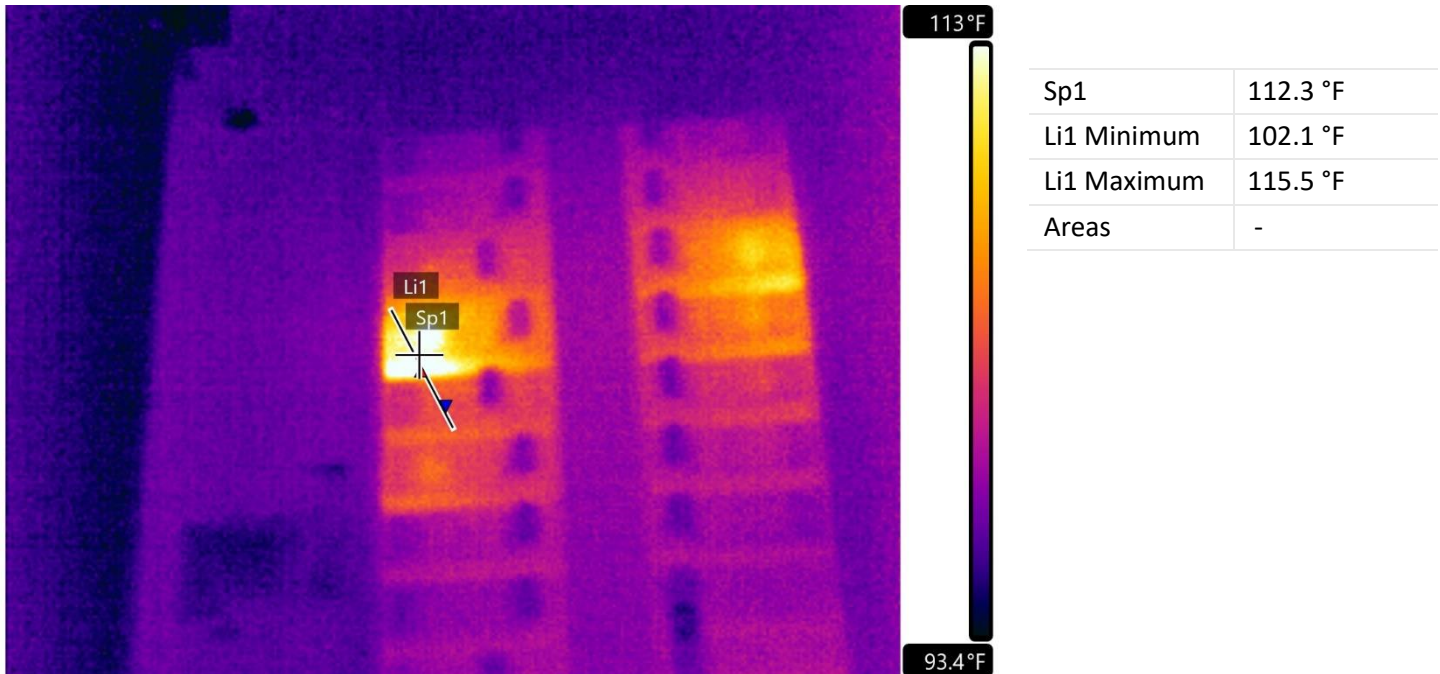
Component	Circuit Breaker Slot 11
Equipment/Bucket ID	Casino 1 st Floor N.E. Equipment Room Panel GED



Fault	Overcurrent condition
Defect Rating	Class II

Recommendations	<p>Two wires are connected to this 20 amp breaker. The top wire is drawing 23 amps and the bottom one was not drawing any current at the time of the survey. The circuit breaker is defective and overloaded.</p> <p>Replace the circuit breaker and reduce the load to 80% or less on this circuit.</p>
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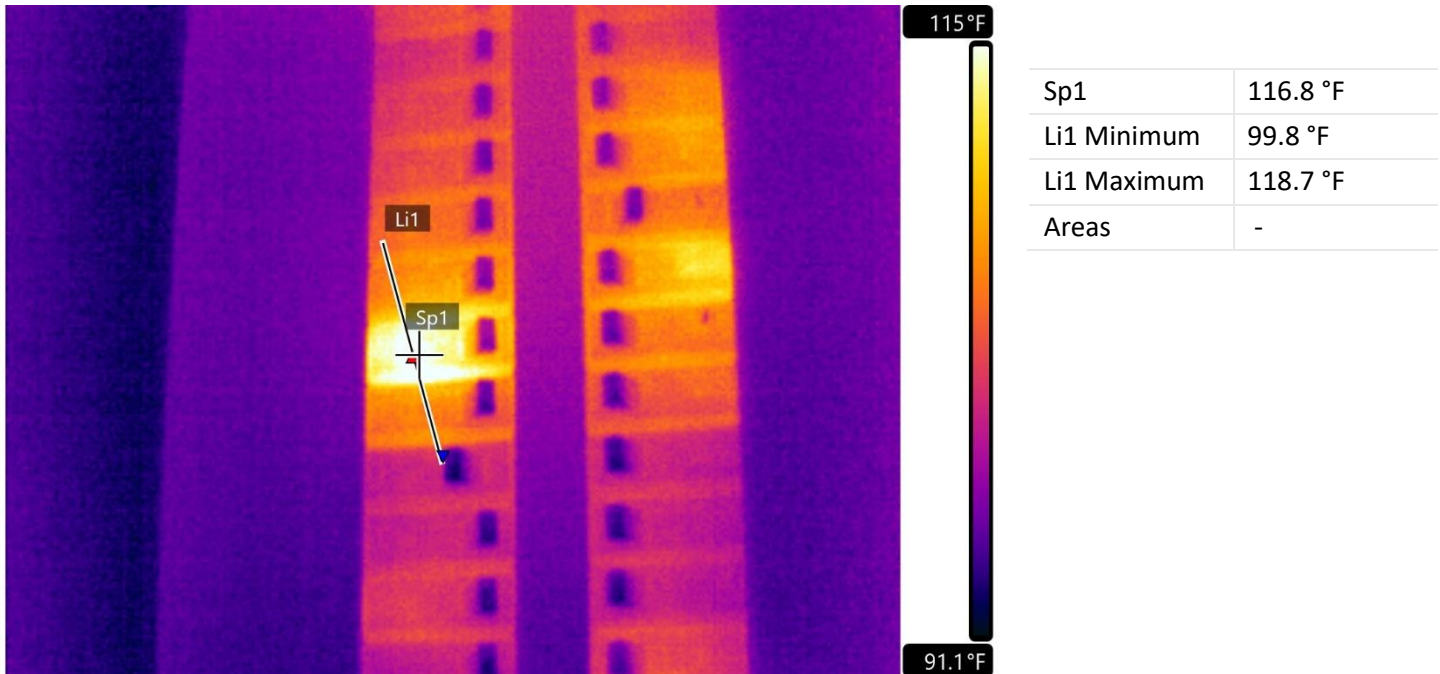
Component	Circuit Breaker 7
Equipment/Bucket ID	Casino 2 nd Floor Electrical Room by Elevator Panel GEE



Fault	Overloaded circuit
Defect Rating	Class I

Recommendations	Circuit breaker is slightly overloaded. It could also be defective and/or have poor connections. Replace the circuit breaker and reduce the loading to 80% or below rating.
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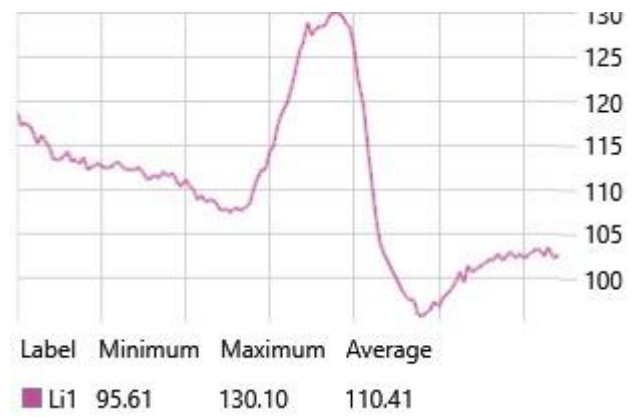
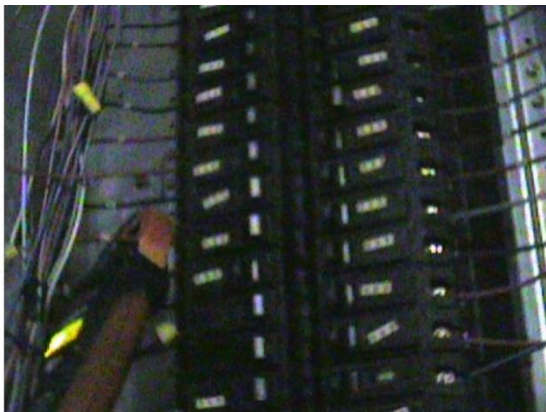
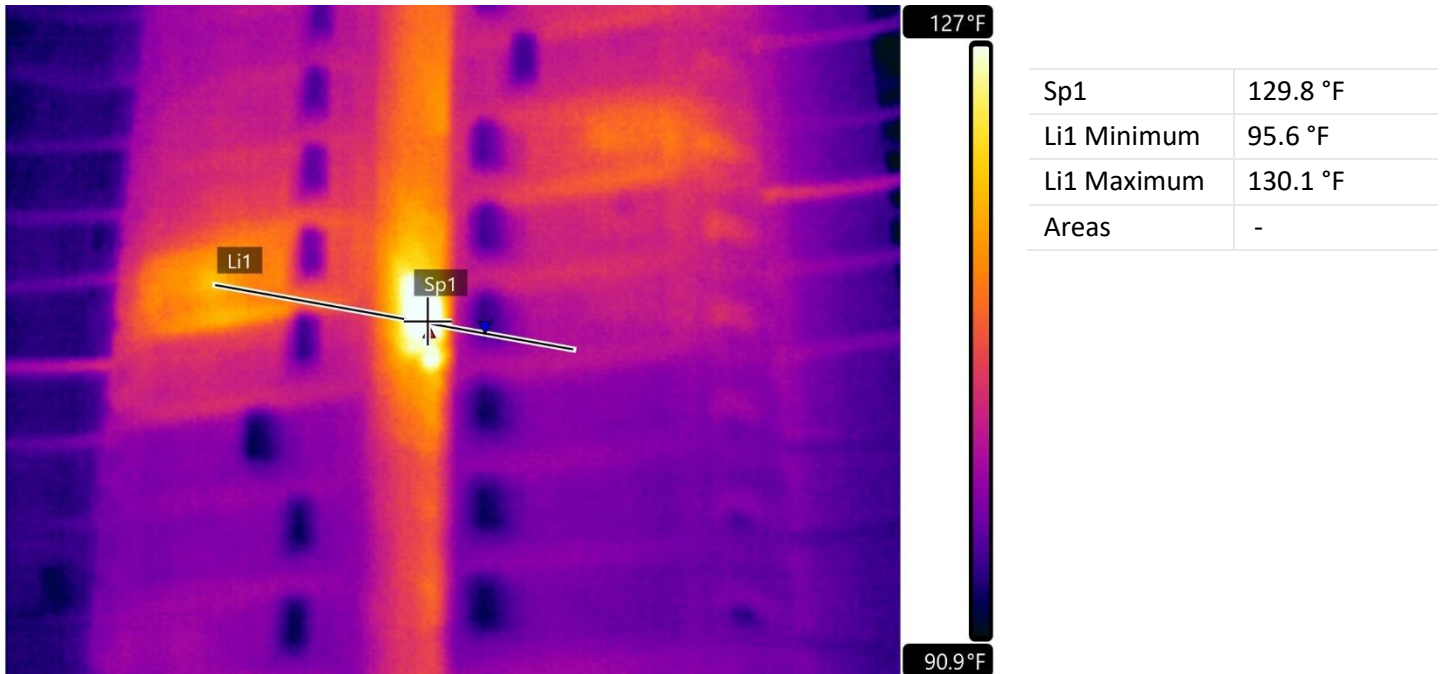
Component	Circuit Breaker 21 (same as next page)
Equipment/Bucket ID	Casino 2 nd Floor Electrical Room by Elevator Panel GFF



Fault	Some heat in breaker
Defect Rating	Class II

Recommendations	<p>The picture on the next pages shows why this breaker had an elevated temperature. The buss connection is poor. Recommend a thorough inspection and cleaning.</p>
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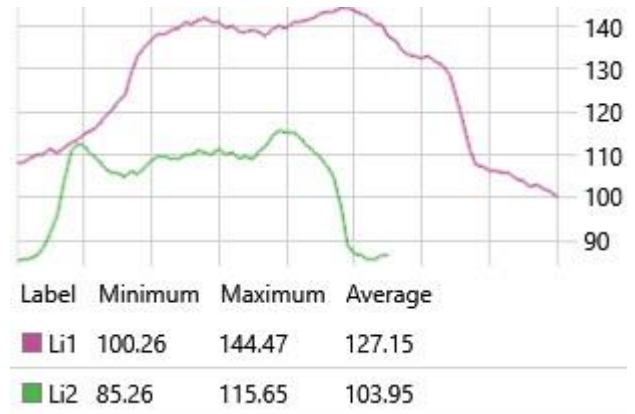
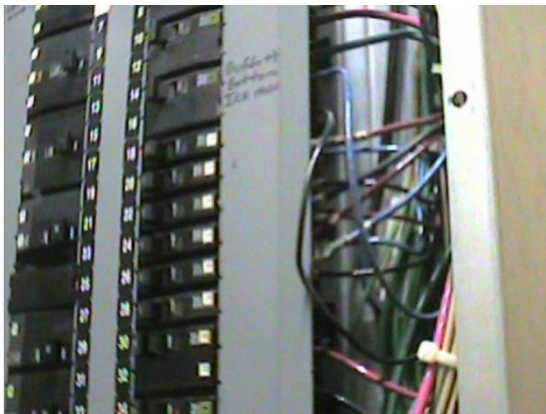
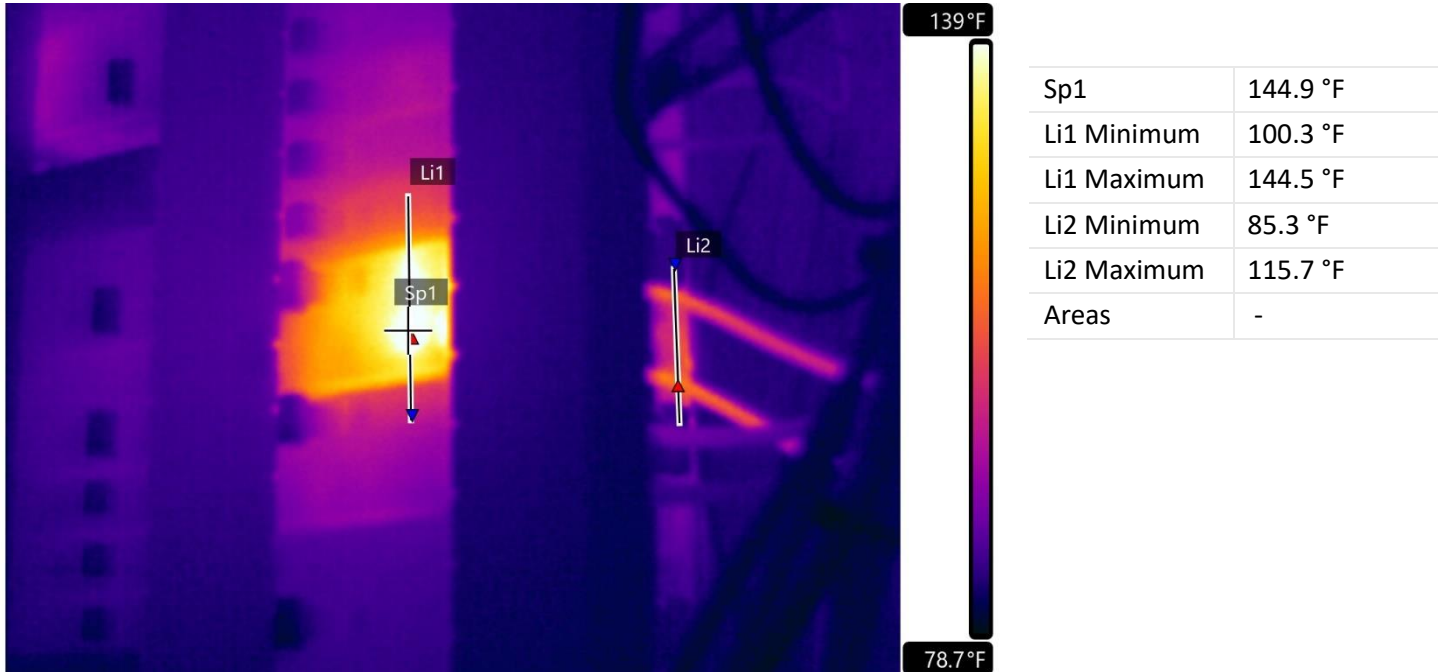
Component	Circuit Breaker 21 Buss Connection
Equipment/Bucket ID	Casino 2 nd Floor Electrical Room by Elevator Panel GFF



Fault	Loose buss connection on breaker 21. Same unit as previous page
Defect Rating	Class II

Recommendations	Check the circuit breaker and buss connection. Ensure they are clean and not heat damaged.
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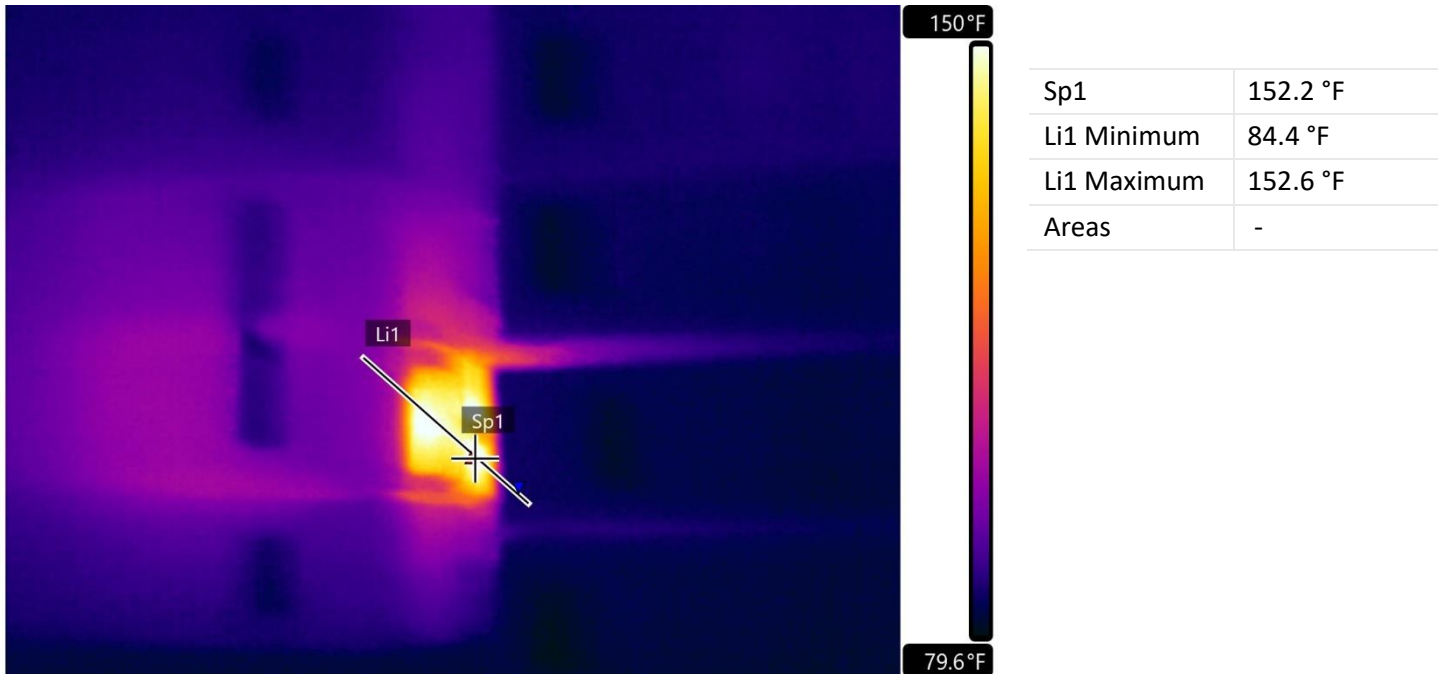
Component	Ice Maker Circuit Breaker slot 14/16
Equipment/Bucket ID	Casino 2 nd Floor Electrical Room by Service Elevator Panel CCT



Fault	Excessive Heat in Breaker
Defect Rating	Class II

Recommendations	Possible faulty breaker, poor buss connection, or overcurrent. Replace the breaker, clean, and inspect all connections.
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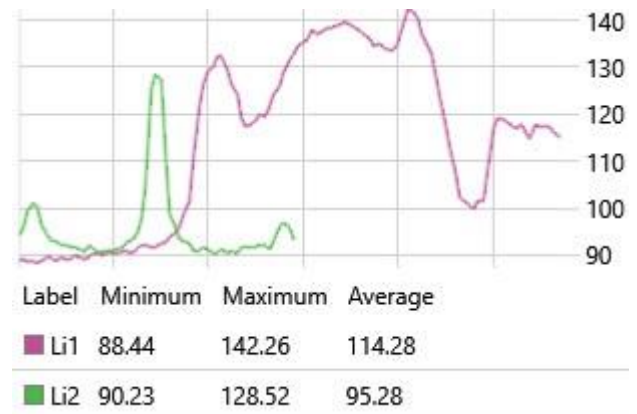
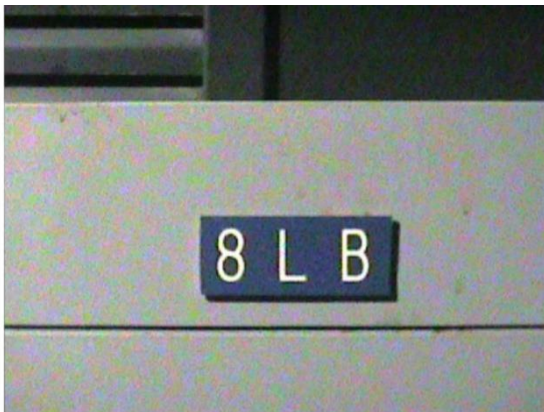
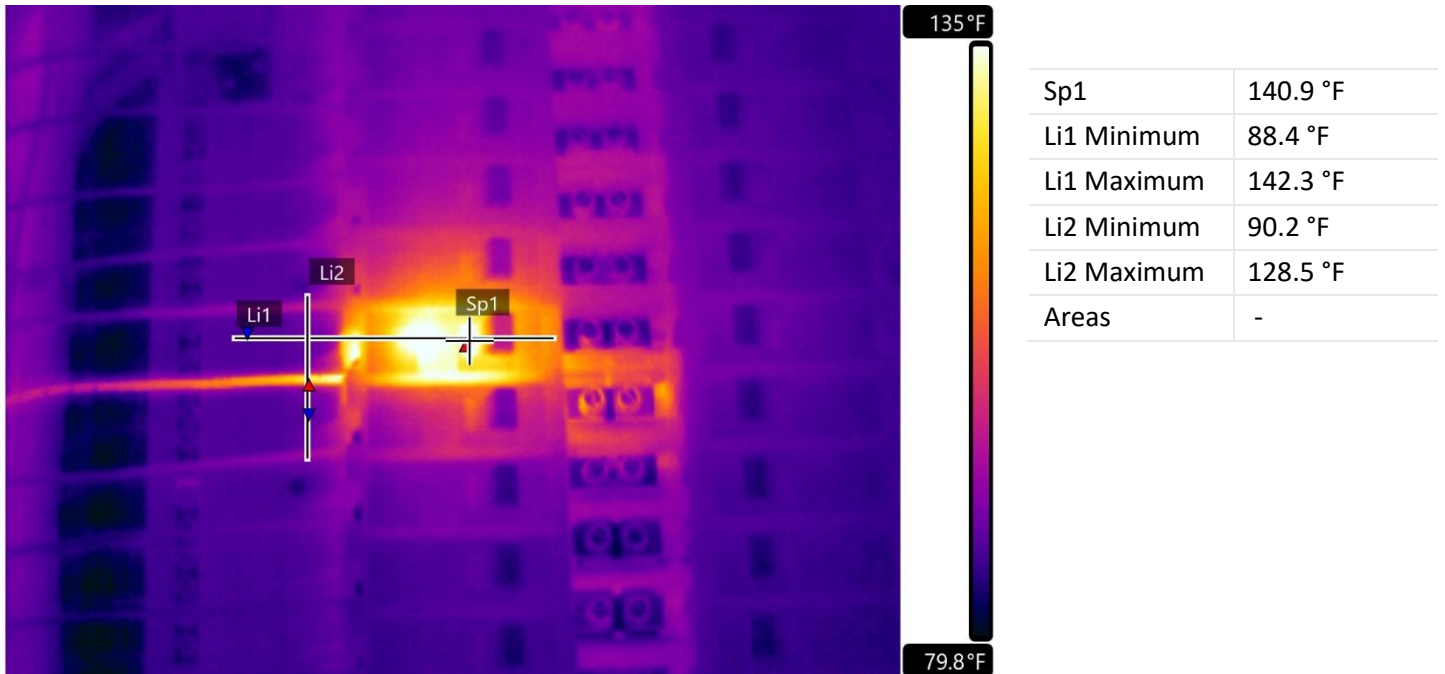
Component	Circuit Breaker in Slot 31/33
Equipment/Bucket ID	Casino Second Floor #1 Electrical Room Near Service Elevator Panel KA



Fault	Faulty connection at buss
Defect Rating	Class II

Recommendations	Breaker has excessive localized heating at the buss connection. Clean, inspect and tighten connection. Consider replacing the circuit breaker.
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Component	Circuit Breaker in Slot 13
Equipment/Bucket ID	Hotel 8 th Floor Panel 8LB by Elevator



Fault	Overloaded and worn circuit breaker
Defect Rating	Class II

Recommendations	Current was measured at 20 amps on a 20 amp breaker. Breaker shows excessive localized heating. Replace the breaker and reduce loading to 80% or less of rating. Ensure all connections are clean and tight.
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Summary

Image Date&Time	Page number
6/23/2021 5:35:44 AM	3
6/23/2021 6:10:54 AM	4
6/23/2021 6:29:06 AM	5
6/23/2021 6:32:22 AM	6
6/23/2021 6:38:50 AM	7
6/23/2021 6:52:26 AM	8
6/23/2021 7:13:44 AM	9
6/23/2021 10:17:28 AM	10

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

(901) 486-4565

dshook@gohispeed.com