

Control Engineering & Design
Building Automation
CCTV & Security Solutions
Networking & Access Control

Customer Name

Site Address
Site Address

Thermographic Survey of Electrical Systems

May 14, 2019

Customer Contact:

John Smith 610-555-2121 John.smith@customer.com

G Technology, Inc. Contact:

P: 610-393-3590 info@gtechnology-pa.com



Control Engineering & Design Building Automation CCTV & Security Solutions Networking & Access Control

Thermographic Survey of Electrical Systems

Customer Name: Electrical Contractor: G Technology, Inc.

Customer Contact: Site Thermographer: John Walton, Miguel Guerrero

Contact Phone Number:

Site Address:

Time of Survey: 7:00 am
Test Equipment: Flir E75

The Electrical Systems of site address was the subject of an infrared (IR) survey on May 14, 2019. Equipment designated by the client for this survey is listed in the report.

Report includes:

Section A – Data Log, a list of all equipment surveyed

Section B - Repair Guide, a list of all equipment with thermal anomalies

Section C – Thermographic Reports, individual report pages of all equipment with thermal anomalies

G Technology, Inc. was retained for a qualitative infrared thermographic survey of electrical switchgear in an effort to identify areas of thermal anomalies and to document them for further review and repair. Further investigations of these areas may reveal additional conditions that were not readily visible at time of inspection. We document our findings with infrared thermograms and visual photographs of the areas. Our inspection is designed to comply with accepted industrial standards and this report is for the exclusive use of our client and is not intended for any other purpose. This report is based on information obtained at the site at the given date and time as described in the report. Should additional information become available at a later date, we reserve the right to determine the impact, if any, that the new information may have on our discovery and recommendations and to revise the report if necessary and warranted.

Analysis and Recommendations:

We recommend that your maintenance team carefully review this report. Items listed on the Repair Guide should be checked by qualified personnel. We use the Delta-T temperature Criteria method of rating anomalies on the electrical equipment. Below, see the temperature ratings, however, your criteria for rating a problem will include not only temperature, but criticality of the equipment and other factors.

Our reports are designed to be clear, concise and useful. Please review this report carefully. If there is anything you would like us to explain, or if there is other information you would like, please feel free to call us as we would be happy to answer any questions.

Sincerely,

Miguel Guerrero
Certified Level II Thermographer



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Customer Name: Customer Contact: Contact Phone Number:

Site Address:

Electrical Contractor: G Technology, Inc.

Site Thermographer: John Walton, Miguel Guerrero

Date of Survey: May 14, 2019 Time of Survey: 7:00 am Test Equipment: Flir E75

Recap of Findings:

(M) Minor = 7(A) Alert = 0(S) Serious = 0(C) Critical = 0TOTAL = 7

Understanding Infrared Imagery:

Infrared imagery is often a picture or "thermograph" whose scales (or shades of color) represent the differences in emitted energy from the surface of an object. As a general rule, patterns in the image that are lighter in shade are warmer and darker patterns cooler. Unlike visible light imagery (0.4-0.7 micrometer wavelengths), objects observed using infrared imagers capture infrared wavelengths in the 3-5 and/or 8-14 micrometer range.

When an image is taken with an infrared camera, it is often recorded onto videotape and/or digitally saved to an on-board storage device. The image may be then modified in a number of ways to enhance its value to the end user. Image files are digitized, saved, then adjusted for color, contrast and brightness before being scaled and placed into a report file. The report is then printed in high quality and/or saved to a CD-ROM for the clients use.

Rating	Temp. Rise in Fahrenheit	Recommendation:
Minor	1-18	Routine repair during regular maintenance, little chance of physical damage.
Alert	19-36	Repair within 30 days with load and inspect for physical damage.
Serious	37-54	Repair or Replace ASAP and inspect surrounding components for physical damage.
Critical	554	Immediate Renair or Replace Danger Evists!



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Survey Begins: Tuesday, May 14, 2019 7:00:00 AM

Location	Electrical Equipment	Notes	Picture	Rating
Main Warehouse	ARU-2, 480V, 3Ph, Category 0 Heating Unit	Not operating during time of inspection		
Main Warehouse	Panel RP-5, BCP-026/TRD-004			
Main Warehouse	Panel RP-2, BCP-025/TRD-003			
Main Warehouse	Exhaust Fan #1B, CMS-043			
Main Warehouse	Supply Fan #1, CMS-044			
Main Warehouse	Exhaust Fan #1A, CMS-045			
Main Warehouse	Air Compressor, Disc-005	Not operating during time of inspection		
Main Warehouse	Baler/Compactor 480V, 3Ph, Disc-005A	Not operating during time of inspection		
Main Warehouse	Compactor, CDP, Disc-006, Category 1	Not operating during time of inspection		
Main Warehouse	Disc-007, Category 1	Not operating during time of inspection		
Main Warehouse	ARU-1, 480V, 3Ph, Category 0 Heating Unit	Not operating during time of inspection		
Main Warehouse	Panel RP-3, BCP-027			
Main Warehouse	Panel LP-3, BCP-028			
Main Warehouse	Panel RP-4, BCP-029			
Main Warehouse	Trans TRD-006			
Main Warehouse	Trans TRD-005			
Main Warehouse	ARU-3, 480V, 3Ph, Category 0 Heating Unit	Not operating during time of inspection		
Main Warehouse	ARU-4, 480V, 3Ph, Category 0 Heating Unit	Not operating during time of inspection		
Main Warehouse	Exhaust Fan #13B, CMS-019			
Main Warehouse	Supply Fan #13, CMS-020			
Main Warehouse	Exhaust Fan #13A, CMS-021			
Main Warehouse	Exhaust Fan #12B, CMS-016			
Main Warehouse	Supply Fan #12, CMS-017			
Main Warehouse	Exhaust Fan #12A, CMS-018			
Main Warehouse	Panel ELP4 fed by EDP, BCP-016			
Main Warehouse	Panel ELP1 fed by EDP, BCP-017			
Main Warehouse	Panel LP-6, BCP-018			
Main Warehouse	Panel LP-6, BCP-019			
Main Warehouse	Panel LP-2A, BCP-020			
Main Warehouse	Panel LDP 2, DP-004			
Main Warehouse	Panel OP-1, BCP-001			
Main Warehouse	Panel OP-2, BCP-002	Found loose connection, repaired on site.		
Main Warehouse	Panel PP-4, BCP-003	Tourid loose confidencing repaired on site.		
Main Warehouse	Panel PP-3, BCP-004			
Main Warehouse	Panel LP-4, BCP-005			
Main Warehouse	Panel PP-2, BCP-006			
Main Warehouse	Panel RP-1, BCP-007			
Main Warehouse	Panel PP-1, BCP-008			
Main Warehouse	Panel LP-1A, BCP-009			
Main Warehouse	Panel LP-5, BCP-010	Fluid or oil on wiring. Checked for leak inside panel.		
Main Warehouse	Panel LP-2, BCP-011	ridia of oil oil willing. Checked for leak inside parien		
Main Warehouse	Panel LP-1, BCP-012			
Main Warehouse	Panel ELP-3, BCP-013			
Main Warehouse	Panel ELP-2, BCP-014			
Main Warehouse	Panel IGP, BCP-015			
Main Warehouse	Panel LDP fed by MDP, DP-001	Found loose wire, Breaker RTU 3 & 6. Repaired on site	. Picture 5/5	Minor
Main Warehouse	Exhaust Fan #7B, CMS-001	reality because with a particular to a dear mapaired of site	1 10001 0 0/0	
Main Warehouse	Supply Fan #7, CMS-002			
Main Warehouse	Exhaust Fan #7A, CMS-003			
Main Warehouse	Exhaust Fan #8, CMS-004			
Main Warehouse	Exhaust Fan #8A, CMS-005			
Main Warehouse	Exhaust Fan #8B, CMS-005			
Main Warehouse	Supply Fan #9, CMS-007			
Main Warehouse	Supply Fan #9A, CMS-007			
Main Warehouse	Supply Fan #9B, CMS-009	C Phase had no consumption		
Main Warehouse		o i hase had no consumption		
	Exhaust Fan #10, CMS-010 Exhaust Fan #10A CMS-011			
Main Warehouse	Exhaust Fan #10A, CMS-011			
Main Warehouse	Exhaust Fan #10B, CMS-012			
Main Warehouse	Exhaust Fan #11, CMS-014			
Main Warehouse	Exhaust Fan #11A, CMS-015			
	Exhaust Fan #11B, CMS-013			
Main Warehouse				
Main Warehouse Main Warehouse	Panel DP-002 Panel CDP fed by MDP, DP-003			



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Main Warehouse Trans OP-1 Main Warehouse Trans IGP Main Warehouse Panel BDP Fed by MDP, DP-005 Main Warehouse Panel BDP Fed by MDP, DP-005 Main Warehouse Panel BDP Fed by MDP, DP-005 Main Warehouse Panel BDP Fed by CDP, BCP-021 Main Warehouse MDP, SWG-002 Main Warehouse Panel BB #1, BCP-022 Panel BB #1, BCP-023 Main Warehouse Supply Fan #145. CMS-023 Main Warehouse Supply Fan #145. CMS-025 Main Warehouse Panel BB #3, BCP-024 Main Warehouse Supply Fan #15, CMS-025 Main Warehouse Panel BB #3, BCP-024 Main Warehouse Supply Fan #6, CMS-029 Main Warehouse Panel BB #3, BCP-024 Main Warehouse Supply Fan #6, CMS-030 Main Warehouse Panel BB #3, BCP-024 Main Warehouse Panel BB #3, BCP-024 Main Warehouse Supply Fan #6, CMS-030 Main Warehouse Panel BB #3, BCP-024 Main Warehouse Panel BB
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Main Warehouse Panel DP-006 Main Warehouse Mpp, SWG-001 Main Warehouse MDP, SWG-002 Main Warehouse MDP, SWG-002 Main Warehouse MDP, SWG-002 Main Warehouse Panel BR #1, BCP-022 Main Warehouse Exhaust Fan #148, CMS-023 Main Warehouse Exhaust Fan #148, CMS-023 Loose Fuse Holder Connection Picture 3/3 Minor Main Warehouse Exhaust Fan #140, CMS-024 Exhaust Fan #158, CMS-025 Disconnect 480V, 3Ph Minor
Main Warehouse Panel CPM fed by CDP, BCP-021 Main Warehouse MDP, SWG-001 Main Warehouse MDP, SWG-002 Main Warehouse Panel BR #1, BCP-0023 Main Warehouse Exhaust Fan #14B, CMS-022 Main Warehouse Supply Fan #14, CMS-023 Loose Fuse Holder Connection Picture 3/3 Minor Main Warehouse Exhaust Fan #14B, CMS-025 Loose Fuse Holder Connection Picture 3/3 Minor Main Warehouse Exhaust Fan #15B, CMS-025 Disconnect 480V, 3Ph Minor Minor Minor Main Warehouse Exhaust Fan #15B, CMS-026 Supply Fan #15, CMS-026 Minor Minor Minor Main Warehouse Big Ass Fan (Door \$4/53) Minor Minor Minor Minor Main Warehouse Exhaust Fan #15B, CMS-028 Picture 17/3-3 Minor Main Warehouse Supply Fan #6, CMS-029 B Phase has stripped screw Picture 13/4-3 Minor Main Warehouse Exhaust Fan #5B, CMS-031 Minor Minor Minor Minor Main Warehouse Exhaust Fan #4B, CMS-035 Minor Min
Main Warehouse Min Warehouse MDP, SWG-001 MDP, SWG-002 Minor WGG-002 Minor WGG-002 Minor WGG-002
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Main Warehouse Panel BR #1, BCP-022 Panel BR #2, BCP-023 Panel BR #2, BCP-023 Panel BR #2, BCP-024 Panel BR #2, BCP-025 Panel BR #2, BCP-025 Panel BR #2, BCP-025 Panel BR #2, CMS-028 Panel BR #2, CMS-028 Panel BR #2, CMS-024 Panel BR #2, CMS-024 Panel BR #2, CMS-026 Panel BR #2, CMS-026 Panel BR #3, BCP-027 Panel BR #3, BCP-027 Panel BR #3, BCP-027 Panel BR #3, BCP-024 Panel BR #3, BC
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Main WarehouseExhaust Fan #14B, CMS-023Loose Fuse Holder ConnectionPicture 3/3MinorMain WarehouseExhaust Fan #14A, CMS-024Main WarehouseExhaust Fan #15B, CMS-025 Disconnect 480V, 3PhMain WarehouseExhaust Fan #15B, CMS-026Main WarehouseExhaust Fan #15A, CMS-027Main WarehouseExhaust Fan #15A, CMS-027Main WarehouseExhaust Fan #15A, CMS-027Main WarehousePace IBR #3, BCP-024Breaker is compromisedPicture 7/3-3MinorMain WarehouseExhaust Fan #6B, CMS-028B Phase has stripped screwPicture 13/4-3MinorMain WarehouseSupply Fan #6A, CMS-030Picture 13/4-3MinorMain WarehouseSupply Fan #6A, CMS-030Picture 13/4-3MinorMain WarehouseExhaust Fan #5B, CMS-031Loose Fuse Holder ConnectionPicture 11/6-3MinorMain WarehouseExhaust Fan #3B, CMS-033Picture 11/6-3MinorMain WarehouseExhaust Fan #4A, CMS-035Picture 11/6-3MinorMain WarehouseExhaust Fan #3B, CMS-034Picture 15/7-3MinorMain WarehouseExhaust Fan #3B, CMS-035Picture 15/7-3MinorMain WarehouseExhaust Fan #3B, CMS-039Picture 15/7-3MinorMain WarehouseExhaust Fan #3B, CMS-039Picture 15/7-3MinorMain WarehouseExhaust Fan #3B, CMS-040Picture 17/8-3MinorMain WarehouseExhaust Fan #3B, CMS-040Picture 17/8-3MinorMain WarehouseExhaust Fan #3B, CMS-041 <t< th=""></t<>
Main Warehouse Supply Fan #14, CMS-023 Loose Fuse Holder Connection Picture 3/3 Minor Main Warehouse Exhaust Fan #14A, CMS-024 Exhaust Fan #15B, CMS-025 Disconnect 480V, 3Ph Main Warehouse Supply Fan #15, CMS-026 Exhaust Fan #15A, CMS-026 Exhaust Fan #15A, CMS-027 Exhaust Fan #15A, CMS-027 Exhaust Fan #15A, CMS-027 Exhaust Fan #15A, CMS-028 Exhaust Fan #15A, CMS-028 Exhaust Fan #15A, CMS-028 Exhaust Fan #6B, CMS-028 Exhaust Fan #6B, CMS-028 Exhaust Fan #6B, CMS-028 Exhaust Fan #6B, CMS-029 Exhaust Fan #6B, CMS-030 Exhaust Fan #5A, CMS-030 Exhaust Fan #5A, CMS-031 Exhaust Fan #5A, CMS-031 Exhaust Fan #5A, CMS-032 Exhaust Fan #5A, CMS-033 Exhaust Fan #4B, CMS-034 Exhaust Fan #4B, CMS-035 Exhaust Fan #4B, CMS-035 Exhaust Fan #4A, CMS-036 Exhaust Fan #3B, CMS-037 Exhaust Fan #3B, CMS-037 Exhaust Fan #3B, CMS-039 Exhaust Fan #3B, CMS-041 Exhaust Fan #3B, CMS-039 Exhaust Fan #3B, CMS-041 Exhaust Fan #3B, CMS-039 Exhaust Fan #3B, CMS-031 Exhaust Fan #3B, CMS-031 Exhaust Fan #3B, CMS-039 Exhaust Fan #3B, CMS-031 Exhaust Fan #3B, CMS-039 E
Main Warehouse Exhaust Fan #14A, CMS-024 Exhaust Fan #15B, CMS-025 Disconnect 480V, 3Ph Main Warehouse Supply Fan #15, CMS-026 Subsequence Exhaust Fan #15A, CMS-027 Subsequence Exhaust Fan #15A, CMS-028 Supply Fan #6B, CMS-028 Supply Fan #6B, CMS-028 Supply Fan #6B, CMS-029 Supply Fan #6B, CMS-030 Supply Fan #6B, CMS-030 Supply Fan #5, CMS-031 Supply Fan #5, CMS-031 Supply Fan #5, CMS-032 Supply Fan #5, CMS-032 Supply Fan #5, CMS-032 Supply Fan #5, CMS-032 Supply Fan #5, CMS-035 Supply Fan #4, CMS-036 Supply Fan #4, CMS-036 Supply Fan #4, CMS-036 Supply Fan #4, CMS-036 Supply Fan #3, CMS-038 Supply Fan #3, CMS-038 Supply Fan #3, CMS-039 Supply Fan #3, CMS-040 Supply Fan #3, CMS-039 Supply Fan #3, CMS-040 Supply Fan #3, CMS-040 Supply Fan #3, CMS-040 Supply Fan #4, CMS-041 Supply Fan #4, CMS-042 Supply Fan #4, CMS-042 Supply Fan #3, CMS-042 Supply Fan #4, CMS-042 Supply Fan #4, CMS-042 Supply Fan #4, CMS-042 Supply Fan #4, CMS-043 Supply Fan #4, CMS-042 Supply Fan #4, CMS-043 Supply Fan #4, CMS-042 Supply Fan #4, CMS-042 Supply Fan #4, CMS-042 Supply Fan #4, CMS-042 Supply Fan #4, CMS-043 Supply Fan #4, CMS-043 Supply Fan #4, CMS-043 Supply Fan #4, CMS-042 Supply Fan #4, CMS-042 Supply Fan #4, CMS-043 Supply Fan #4, CMS-043 Supply Fan #4, CMS-042 Supply Fan #4, CMS-043
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Main WarehouseExhaust Fan #15A, CMS-027Main WarehouseBig Ass Fan (Door 54/53)Main WarehousePanel BR #3, BCP-024Breaker is compromisedPicture 7/3-3MinorMain WarehouseExhaust Fan #6B, CMS-028Main WarehouseSupply Fan #6, CMS-029B Phase has stripped screwPicture 13/4-3MinorMain WarehouseSupply Fan #6, CMS-030Fan #56, CMS-030Main WarehouseExhaust Fan #5B, CMS-031Ficture 11/6-3MinorMain WarehouseExhaust Fan #5A, CMS-032Loose Fuse Holder ConnectionPicture 11/6-3MinorMain WarehouseExhaust Fan #4B, CMS-034Fan #4B, CMS-034Fan #4B, CMS-035Main WarehouseExhaust Fan #4B, CMS-036Fan #4B, CMS-036Main WarehouseExhaust Fan #3B, CMS-038Loose Fuse Holder ConnectionPicture 15/7-3MinorMain WarehouseExhaust Fan #3B, CMS-038Loose Fuse Holder ConnectionPicture 15/7-3MinorMain WarehouseExhaust Fan #3A, CMS-038Loose Fuse Holder ConnectionPicture 11/8-3MinorMain WarehouseExhaust Fan #3A, CMS-039Fan #2, CMS-041Loose Fuse Holder ConnectionPicture 17/8-3MinorMain WarehouseLighting Contact (Exterior Lighting)Fan #2, CMS-042Fan #2, CMS-042Fan #2, CMS-042Fan #2, CMS-042Main WarehouseExhaust Fan #2, CMS-042Fan #2, CMS-042Fan #2, CMS-042Fan #2, CMS-042Fan #2, CMS-042Main WarehouseExhaust Fan #2, CMS-042Fan #2, CMS-042Fan #2, CMS-042Fan #2, CMS-042<
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Main Warehouse Panel BR #3, BCP-024 Breaker is compromised Picture 7/3-3 Minor Main Warehouse Exhaust Fan #6B, CMS-028 Main Warehouse Supply Fan #6, CMS-030 Exhaust Fan #5B, CMS-030 Exhaust Fan #5B, CMS-031 Main Warehouse Supply Fan #5, CMS-032 Loose Fuse Holder Connection Picture 11/6-3 Minor Main Warehouse Exhaust Fan #5B, CMS-033 Main Warehouse Exhaust Fan #4B, CMS-034 Main Warehouse Exhaust Fan #4B, CMS-035 Main Warehouse Exhaust Fan #4A, CMS-035 Main Warehouse Exhaust Fan #3B, CMS-035 Main Warehouse Exhaust Fan #3B, CMS-036 Main Warehouse Exhaust Fan #3B, CMS-037 Main Warehouse Exhaust Fan #3A, CMS-039 Main Warehouse Exhaust Fan #2B, CMS-040 Main Warehouse Exhaust Fan #2B, CMS-041 Main Warehouse Exhaust Fan #2B, CMS-041 Main Warehouse Exhaust Fan #2B, CMS-042 Main Warehouse Main Warehouse Exhaust Fan #2C, CMS-042 Main Warehouse Supply Fan #2, CMS-042 Main Warehouse Supply Fan #2, CMS-042 Main Warehouse Supply Fan #3, CMS-038 Main Warehouse Supply Fan #3, CMS-034 Main Warehouse Supply Fan #2, CMS-041 Main Warehouse Supply Fan #2, CMS-042 Main Warehouse Supply Fan #2, CMS-043 Main Warehouse Supply Fan #2, CMS-042 Main Warehouse Supply Fan #2, CMS-043 Main Warehouse Supply Fan #3, CMS-038 Main Warehouse Supply Fan #3, CMS-034 Main Warehouse Supply Fan #3, CMS-038 Main Warehouse Supply Fan #3, C
Main Warehouse Exhaust Fan #6B, CMS-028 Main Warehouse Supply Fan #6, CMS-029 B Phase has stripped screw Picture 13/4-3 Minor Supply Fan #6A, CMS-030 Main Warehouse Exhaust Fan #5B, CMS-031 Main Warehouse Supply Fan #5, CMS-032 Loose Fuse Holder Connection Picture 11/6-3 Minor Main Warehouse Exhaust Fan #5A, CMS-033 Main Warehouse Exhaust Fan #4B, CMS-034 Main Warehouse Supply Fan #4, CMS-035 Main Warehouse Exhaust Fan #4A, CMS-036 Main Warehouse Exhaust Fan #3B, CMS-037 Main Warehouse Supply Fan #3, CMS-038 Loose Fuse Holder Connection Picture 15/7-3 Minor Main Warehouse Exhaust Fan #3A, CMS-039 Main Warehouse Exhaust Fan #2B, CMS-040 Main Warehouse Supply Fan #2, CMS-041 Loose Fuse Holder Connection Picture 17/8-3 Minor Main Warehouse Exhaust Fan #2B, CMS-041 Main Warehouse Lighting Contact (Exterior Lighting) Square D Class 8910 Type DPA23 #1 Square D Class 8910 Type DPA23 #3 Square D Class 8910 Type DPA23 #3
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Main Warehouse Supply Fan #5, CMS-032 Loose Fuse Holder Connection Picture 11/6-3 Minor Main Warehouse Exhaust Fan #5A, CMS-033 Main Warehouse Supply Fan #4, CMS-034 Main Warehouse Exhaust Fan #4A, CMS-035 Main Warehouse Exhaust Fan #3A, CMS-036 Main Warehouse Exhaust Fan #3B, CMS-037 Main Warehouse Supply Fan #3, CMS-038 Loose Fuse Holder Connection Picture 15/7-3 Minor Main Warehouse Exhaust Fan #3A, CMS-039 Main Warehouse Exhaust Fan #2B, CMS-040 Main Warehouse Supply Fan #2, CMS-041 Loose Fuse Holder Connection Picture 17/8-3 Minor Main Warehouse Exhaust Fan #2, CMS-042 Main Warehouse Lighting Contact (Exterior Lighting) Square D Class 8910 Type DPA23 #1 Square D Class 8910 Type DPA23 #3
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Main WarehouseExhaust Fan #4B, CMS-034Main WarehouseSupply Fan #4, CMS-035Main WarehouseExhaust Fan #4A, CMS-036Main WarehouseExhaust Fan #3B, CMS-037Main WarehouseSupply Fan #3, CMS-038Loose Fuse Holder ConnectionPicture 15/7-3MinorMain WarehouseExhaust Fan #3A, CMS-039Main WarehouseExhaust Fan #2B, CMS-040Main WarehouseSupply Fan #2, CMS-041Loose Fuse Holder ConnectionPicture 17/8-3MinorMain WarehouseExhaust Fan #2, CMS-042Main WarehouseLighting Contact (Exterior Lighting)Square D Class 8910 Type DPA23 #1Square D Class 8910 Type DPA23 #2Square D Class 8910 Type DPA23 #3
Main WarehouseSupply Fan #4, CMS-035Main WarehouseExhaust Fan #4A, CMS-036Main WarehouseExhaust Fan #3B, CMS-037Main WarehouseSupply Fan #3, CMS-038Loose Fuse Holder ConnectionPicture 15/7-3MinorMain WarehouseExhaust Fan #3A, CMS-039Main WarehouseExhaust Fan #2B, CMS-040Main WarehouseSupply Fan #2, CMS-041Loose Fuse Holder ConnectionPicture 17/8-3MinorMain WarehouseExhaust Fan #2, CMS-042Main WarehouseLighting Contact (Exterior Lighting)Square D Class 8910 Type DPA23 #1Square D Class 8910 Type DPA23 #2Square D Class 8910 Type DPA23 #3
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Main Warehouse Exhaust Fan #3A, CMS-039 Main Warehouse Exhaust Fan #2B, CMS-040 Main Warehouse Supply Fan #2, CMS-041 Loose Fuse Holder Connection Picture 17/8-3 Minor Main Warehouse Exhaust Fan #2, CMS-042 Main Warehouse Lighting Contact (Exterior Lighting) Square D Class 8910 Type DPA23 #1 Square D Class 8910 Type DPA23 #2 Square D Class 8910 Type DPA23 #3
Main WarehouseExhaust Fan #2B, CMS-040Main WarehouseSupply Fan #2, CMS-041Loose Fuse Holder ConnectionPicture 17/8-3MinorMain WarehouseExhaust Fan #2, CMS-042Main WarehouseLighting Contact (Exterior Lighting)Square D Class 8910 Type DPA23 #1Square D Class 8910 Type DPA23 #2Square D Class 8910 Type DPA23 #3
Main Warehouse Supply Fan #2, CMS-041 Loose Fuse Holder Connection Picture 17/8-3 Minor Main Warehouse Exhaust Fan #2, CMS-042 Main Warehouse Lighting Contact (Exterior Lighting) Square D Class 8910 Type DPA23 #1 Square D Class 8910 Type DPA23 #2 Square D Class 8910 Type DPA23 #3
Main Warehouse Exhaust Fan #2, CMS-042 Main Warehouse Lighting Contact (Exterior Lighting) Square D Class 8910 Type DPA23 #1 Square D Class 8910 Type DPA23 #2 Square D Class 8910 Type DPA23 #3
Main Warehouse Lighting Contact (Exterior Lighting) Square D Class 8910 Type DPA23 #1 Square D Class 8910 Type DPA23 #2 Square D Class 8910 Type DPA23 #3
Square D Class 8910 Type DPA23 #1 Square D Class 8910 Type DPA23 #2 Square D Class 8910 Type DPA23 #3
Square D Class 8910 Type DPA23 #2 Square D Class 8910 Type DPA23 #3
Square D Class 8910 Type DPA23 #3
Square D Class 8910 Type DPA23 #4
Square D Class 8910 Type DPA23 #5
Square D Class 8910 Type DPA24 #1
Allen Bradley 100-A30N*3 #1
Allen Bradley 100-A30N*3 #2
Pump House Panel B, Siemens 125A, BCP-032, Ckt. 1 Loose Connection Picture 25 Minor
Pump House Panel B, Siemens 125A, BCP-032, Ckt. 10 Loose Connection Picture 27 Minor
Pump House Panel A, Siemens 125A, BCP-031
Pump House Square D Transformer, 30kVA, TRD-007



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file8 (003).jpeg

Measurements

Sp1		83.8 °F	
Sp2		81.9 °F	
Sp3		79.5 °F	
Sp4		76.0 °F	
Sp5		79.9 °F	
Sp6		75.4 °F	

Description:

Phase A has a loose fuse holder connection.

Recommendation:

Replace fuse holder.

Parameters

raiailieteis	
Emissivity	0.95
Refl. temp.	66 °F
Distance	3.3 ft
Atmospheric temp.	67.1 °F
Ext. optics temp.	68 °F
Ext. optics trans.	1
Relative humidity	48 %

Text annotaations

VOLTS A-B	494.4V
VOLTS A-C	496.3V
VOLTS B-C	499.2V
AMPS A	8.8A
AMPS B	9.8A
AMPS C	9.9A
MV A	134.2MV
MV B	87.7MV
MV C	87.1MV

Note

Supply Fan 2

Furnas 480V, 3Ph Fusible HD Disconnect Part No: D46120-001

Rating: Minor

Temperature Difference: 8.4

Rating	Temp. Rise In Fahrenheit	Recommendations:
Minor	1-18	Routine repair during regular maintenance, little chance of physical damage.
Alert	19-36	Repair within 30 days check load and inspect for physical damage.
Serious	37-54	Repair or replace ASAP and inspect surrounding components for physical damage.
Critical	55+	Immediate Repair or Replace. Danger Exists!



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file4 (003).jpeg

Measurements

Sp1	75.9 °F
Sp2	77.4 °F
Sp3	82.2 °F
Sp4	82.2 °F
Sp5	77.6 °F
Sp6	80.3 °F

Darameters

Parameters	
Emissivity	0.95
Refl. temp.	66 °F
Distance	3.3 ft
Atmospheric temp.	67.1 °F
Ext. optics temp.	68 °F
Ext. optics trans.	1
Relative humidity	48 %

Note

Supply Fan 6

Furnas 480V, 3Ph Fusible HD Disconnect Part No: D46120-001

Description:

Phases B & C have loose fuse holder connections.

Recommendation:

Replace fuse holders.

Text annotations

VOLTS A-B	476.5V
VOLTS A-C	499.3V
VOLTS B-C	502.4V
AMPS A	9.2A
AMPS B	10A
AMPS C	10.3A
MV A	55.1MV
MV B	66.9MV
MV C	64.4MV

Rating: Minor

Temperature Difference: 6.3

Rating	Temp. Rise In Fahrenheit	Recommendations:
Minor	1-18	Routine repair during regular maintenance, little chance of physical damage.
Alert	19-36	Repair within 30 days check load and inspect for physical damage.
Serious	37-54	Repair or replace ASAP and inspect surrounding components for physical damage.
Critical	55+	Immediate Repair or Replace. Danger Exists!



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file7 (003).jpeg

Measurements

Sp1	78.7 °F
Sp2	74.7 °F
Sp3	82.6 °F
Sp4	76.7 °F
Sp5	80.7 °F
Sp5 Sp6	74.7 °F

Parameters

i didilicters	
Emissivity	0.95
Refl. temp.	66 °F
Distance	3.5 ft
Atmospheric temp.	66 °F
Ext. optics temp.	68 °F
Ext. optics trans.	1
Relative humidity	48 %

Note

Supply Fan 3

Furnas 480V, 3Ph Fusible HD Disconnect Part No: D46120-001

Description:

Phases B & A have loose fuse holder connections.

Recommendation:

Replace Fuse holders.

Text annotations

VOLTS A-B	494.2V
VOLTS A-C	496.3V
VOLTS B-C	499.4V
AMPS A	9.3A
AMPS B	10.6A
AMPS C	10.6A
MV A	126.7MV
MV B	197.2MV
MV C	62.1MV

Rating: Minor

Temperature Difference: 7.9

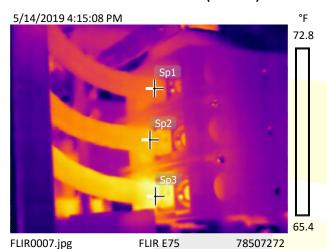
Rating	Temp. Rise In Fahrenheit	Recommendations:
Minor	1-18	Routine repair during regular maintenance, little chance of physical damage.
Alert	19-36	Repair within 30 days check load and inspect for physical damage.
Serious	37-54	Repair or replace ASAP and inspect surrounding components for physical damage.
Critical	55+	Immediate Repair or Replace. Danger Exists!



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Warehouse Main Floor: Panel BR# 3 (BCP-024)



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file3 (003).jpeg

Measurements

Sp1	69.8 °F
Sp2	70.9 °F
Sp3	72.6 °F

Parameters

i didilicters	
Emissivity	0.95
Refl. temp.	66 °F
Distance	1.9 ft
Atmospheric temp.	68 °F
Ext. optics temp.	67.3 °F
Ext. optics trans.	1
Relative humidity	48 %

Note

Siemens Main Breaker 225A

Description:

Main Breaker is internally compromised.

Recommendation:

Replace Breaker.

Text annotations

VOLTS A-B	496.6V
VOLTS A-C	500V
VOLTS B-C	502.5V
VOLTS A-G	286.2V
VOLTS B-G	288.5V
VOLTS C-G	290.2V
AMPS A	31A
A A A D C D	22.04
AMPS B	33.8A
AMPS C	35.9A
AMPS C	35.9A
AMPS C MV A	35.9A 41.6MV

Rating: Minor

Temperature Difference: 2.8

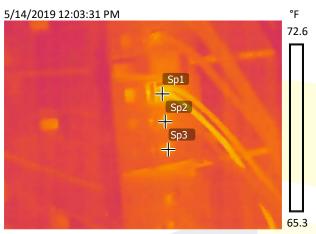
Rating	Temp. Rise In Fahrenheit	Recommendations:
Minor	1-18	Routine repair during regular maintenance, little chance of physical damage.
Alert	19-36	Repair within 30 days check load and inspect for physical damage.
Serious	37-54	Repair or replace ASAP and inspect surrounding components for physical damage.
Critical	55+	Immediate Repair or Replace. Danger Exists!



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Warehouse Main Floor: Panel LDP (DP-001)



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Measurements

Sp1	71.3 °F	
Sp2	70.4 °F	
Sp3	70.1 °F	
RH 1	44.9 %	
Air 1	68.7 °F	

Parameters 4 8 1

Parameters	
Emissivity	0.95
Refl. temp.	58.3 °F
Distance	3 ft
Atmospheric temp.	67.1 °F
Ext. optics temp.	68 °F
Ext. optics trans.	1
Relative humidity	48 %

Note

Breaker RTU 3/6

Description:

Wire termination was loose inside the breaker. No load at the time of inspection. Couldn't log any measurements.

Recommendation:

Push wire in and tightened down lug on breaker.

Repaired on site at time of inspection By: John Walton, Electrical Technician

Rating: Minor

Temperature Difference: 0.9

Rating	Temp. Rise In Fahrenheit	Recommendations:
Minor	1-18	Routine repair during regular maintenance, little chance of physical damage.
Alert	19-36	Repair within 30 days check load and inspect for physical damage.
Serious	37-54	Repair or replace ASAP and inspect surrounding components for physical damage.
Critical	55+	Immediate Repair or Replace. Danger Exists!



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Warehouse Main Floor: Supply Fan 14



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Phase C has a loose Fuse Holder connection.

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Manageman	
Measurement	.5

Furnas 480V, 3Ph Fusible HD Disconnect Part No: D46120-001

Rating: Minor

Temperature Difference: 6.8

Sp1	72.8 °F
Sp2	69.5 °F
Sp3	75.1 °F
Sp4	70.4 °F
Sp5	81.9 °F
Sp6	76.9 °F
RH 1	57.3 %
Air 1	62.4 °F
Parameters	
Emissivity	0.95
Refl. temp.	58.2 °F
Distance	3.3 ft
Atmospheric temp.	64 °F
Ext. optics temp.	68 °F
Ext. optics trans.	1
Relative humidity	55 %
Note	
Supply Fan 14	

03.3 1	Recommendation:	
75.1 °F	Replace fuse holder	
70.4 °F		
81.9 °F	Text annotations	
76.9 °F	VOLTS A-B	489.1V
57.3 %	VOLTS A-C	491.3V
62.4 °F	VOLTS B-C	494V
	VOLTS A-G	281.5V
0.95	VOLTS B-G	284V
58.2 °F		
3.3 ft	VOLTS C-G	285.4V
64 °F	AMPS A	8.6A
68 °F	AMPS B	9.4A
1	AMPS C	9.7A
55 %	MV A	53.4MV
	MV B	58.3MV
	MV C	106.7MV

Rating	Temp. Rise In Fahrenheit	Recommendations:
Minor	1-18	Routine repair during regular maintenance, little chance of physical damage.
Alert	19-36	Repair within 30 days check load and inspect for physical damage.
Serious	37-54	Repair or replace ASAP and inspect surrounding components for physical damage.
Critical	55+	Immediate Repair or Replace. Danger Exists!



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Measurements

Sp1	80.4 °F
Sp2	76.9 °F
Sp3	91.0 °F
Sp3 Sp4	83.9 °F
Sp5	86.2 °F
Sp6	79.1 °F

Parameters

i didilicters	
Emissivity	0.95
Refl. temp.	58.3 °F
Distance	2.4 ft
Atmospheric temp.	67.2 °F
Ext. optics temp.	67.3 °F
Ext. optics trans.	1
Relative humidity	48 %

Note

Supply Fan 5

Furnas 480V, 3Ph Fusible HD Disconnect Part No: D46120-001

Description:

Phase B has a loose fuse holder connection.

Recommendation:

Replace fuse holder.

Text annotations

VOLTS A-B	496.2V
VOLTS A-C	500.3V
VOLTS B-C	502.5V
AMPS A	9.5A
AMPS B	10.2A
AMPS C	10.7A
MV A	78.2MV
MV B	124.2MV
MV C	107.6MV

Rating: Minor

Temperature Difference: 14.1

Rating	Temp. Rise In Fahrenheit	Recommendations:
Minor	1-18	Routine repair during regular maintenance, little chance of physical damage.
Alert	19-36	Repair within 30 days check load and inspect for physical damage.
Serious	37-54	Repair or replace ASAP and inspect surrounding components for physical damage.
Critical	55+	Immediate Repair or Replace. Danger Exists!



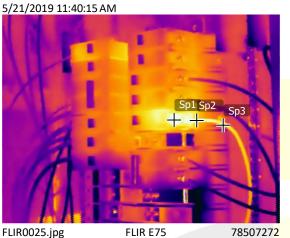
°F

70.4

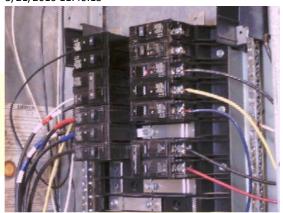
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Warehouse Main Floor: Panel B



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Measurements

Sp1	81.5 °F	
Sp2	79.8 °F	
Sp3	77.6 °F	
RH 1	35.3 %	Π
Air 1	70.2 °F	Т

Parameters

. a. a	
Emissivity	0.95
Refl. temp.	67 °F
Distance	2.8 ft
Atmospheric temp.	72.6 °F
Ext. optics temp.	68 °F
Ext. optics trans.	1
Relative humidity	25.3 %

Description:

Found Termination issue with Circuit Breaker #10.

Recommendation:

Repair loose connection on site.

Repaired on site at time of inspection By: Miguel Guerrero, Electrical Technician

Rating: Minor

Temperature Difference: 3.9

Rating	Temp. Rise In Fahrenheit	Recommendations:
Minor	1-18	Routine repair during regular maintenance, little chance of physical damage.
Alert	19-36	Repair within 30 days check load and inspect for physical damage.
Serious	37-54	Repair or replace ASAP and inspect surrounding components for physical damage.
Critical	55+	Immediate Repair or Replace. Danger Exists!

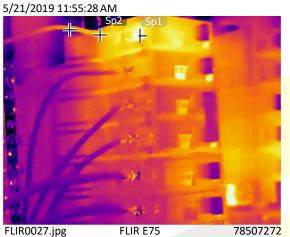


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Setting the Industry's Standard

Warehouse Main Floor: Panel B



70.6

°F

79.2

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Measurements

Sp1	79.0 °F
Sp2	76.4 °F
Sp3	75.2 °F
RH 1	33.2 %
Air 1	72.3 °F

Parameters

raiailieteis	
Emissivity	0.95
Refl. temp.	66 °F
Distance	3.3 ft
Atmospheric temp.	72.6 °F
Ext. optics temp.	68 °F
Ext. optics trans.	1
Relative humidity	25.3 %

Description:

Found Termination issue with Circuit Breaker #1.

Recommendation:

Repair loose connection on site.

Repaired on site at time of inspection
By: Miguel Guerrero, Electrical Technician

Rating: Minor

Temperature Difference: 3.8

Rating	Temp. Rise In Fahrenheit	Recommendations:
Minor	1-18	Routine repair during regular maintenance, little chance of physical damage.
Alert	19-36	Repair within 30 days check load and inspect for physical damage.
Serious	37-54	Repair or replace ASAP and inspect surrounding components for physical damage.
Critical	55+	Immediate Repair or Replace. Danger Exists!



Setting the Industry's Standard

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