

INFRARED INSPECTION REPORT

February 13, 2015

Companies Unlimited

1401 Brand St. Los Angeles, CA 90028

Contact: Ron McKinney



An Introduction to Infrared Inspection

When installed correctly and operated within their ratings, electrical systems are incredibly reliable and can provide years of uninterrupted service without any troubles. When problems do occur it is because of some sort of error in the system such as overloads, short circuits, poor connections or misapplied components (not designed for the particular installation). A common symptom of these types of errors is overheating. As all electrical components have temperature limits, this overheating can rather quickly lead to destruction. The magnitude of the over temperature can give a good idea as to how much longer the component(s) might survive.

Infrared inspection utilizes an infrared (heat detecting) camera to quickly and safely survey equipment and locate temperature anomalies invisible to the naked eye. Any anomaly found is further investigated to pinpoint the likely cause of the problem so that recommended corrective actions can be implemented. It is important to note that infrared inspections should only be conducted while the facility is in operation. Otherwise, there will be little if any heating of the equipment being examined and potential problems will be missed.

When examining temperature anomalies, we are not just looking for absolute temperature extremes, we are also interested in relative temperature. For example, a circuit breaker may have several poles, each carrying the same amount of current. We see that one of the poles is significantly hotter than the others but not necessarily over limit. As this is an anomaly, this peaks our interest so we will do additional testing to sort it out.

The Basic Procedure:

- Note the type of equipment being examined and its identification,
- Remove covers to expose the current carrying components,
- Scan the equipment for thermal anomalies,
- With each anomaly found, determine the likely cause by visual and metered examination,
- Save images showing the anomaly and document all other test results as applicable,
- Create a report showing the anomalies and the recommended corrective actions.

In short, infrared inspection is a unique method of observing equipment condition during normal operation. It is safe, efficient and effective. It can detect anomalies which, if left unchecked, could cause costly damage and downtime, not to mention more dramatic troubles. By performing a routine infrared inspection in addition to regular preventive maintenance, your control over your system increases, surprises reduce and you can get on with production.

Glossary

Amps: 1. A unit of electrical flow; 2. The rating of an electrical equipments flow carrying capacity.

Anomaly: Something different, abnormal, peculiar.

CB: An abbreviation for Circuit Breaker.

Circuit Breaker: A circuit control and protection device used to monitor and interrupt excessive flow of an electrical circuit. It consists of a switch and current monitor usually encased in a common housing. When excessive current is detected, the current monitor causes the switch to open.

Delta T: Refers to a difference in temperature. In our case, it refers to the difference between the reference and the hot spot measurement.

FS: An abbreviation for Fused Switch.

Fuse: A circuit protection device used to monitor and interrupt excessive flow of an electrical circuit. The fuse is put in line with the circuit and will open the circuit when the current exceeds its design rating.

Fused Switch (Fused SW): A circuit control and protection device used to monitor and interrupt excessive flow of an electrical circuit. It consists of a switch and fuses in a common enclosure. The switch only acts as a control for the user by opening and closing the circuit, while the fuses monitor the current and open when excessive current flows through the circuit.

Infrared (IR): A particular energy radiated from all objects. It is not visible to the naked eye, but using specialized equipment, can be detected and reveals object temperature.

MV Drop: An abbreviation for Millivolt-drop or 1/1000 of a volt. We measure MV Drop across certain devices to determine the possible location of a problem. A voltage drop across a device creates heat.

PANEL: A common electrical distribution enclosure containing various circuit breakers.

PMI: Abbreviation: 1. "Predictive Maintenance Inspection" 2. "Preventive Maintenance Inspection"

Predictive Maintenance Inspection: Techniques intended to detect anomalies in equipment while in operation. The purpose is to locate problems before failure so corrective actions can be scheduled to resolve the difficulty.

Preventive Maintenance Inspection: Techniques intended to keep equipment in good operating condition through cleaning, lubricating, torquing, visual inspection, etc. It is performed while the equipment is removed from service.

Reference: As used in these documents, reference refers to a temperature reading used to compare to a "hot spot". The reference will commonly be the ambient temperature of the components environment but it may also be an adjacent component deemed useful for comparison.

SWB: An abbreviation for Switchboard.

Switchboard: A large electrical distribution cabinet containing various switches and/or circuit breakers.

T Ambient: Stands for temperature ambient which is the measured ambient temperature at the time of the scan.

Transformer: An electrical conversion device used to raise or lower voltage (pressure) of an electrical system. Commonly used in commercial and industrial facilities to convert voltage for panels and machinery which require a different voltage than is available.

Voltage or Volts: A unit of electrical pressure.

XFRM: An abbreviation for Transformer.

INSPECTION REPORT - Equipment/Component List (Master)

(Items requiring attention are highlighted in "Red")

Customer/Facility: Companies Unlimited

Scan Date: Friday, February 13, 2015 IR Tech: Joe Smith

Location	Equipment ID	Component ID	Туре	Rpt #	Priority	Trouble Summary
Building 100 Electrical Room	Main Service Switchboard	Overall Assembly				
Building 100 Electrical Room	Main Service	Service Main	СВ			
Building 100 Electrical Room	Main Service	Unit #114 - House	СВ			
Building 100 Electrical Room	Main Service	Unit #100 - Jalisco	СВ			
Building 100 Electrical Room	Main Service	Unit #104 - Cal Fruit	СВ			
Building 100 Electrical Room	Main Service	Unit #109	СВ			
Building 100 Electrical Room	Main Service	Unit #102	СВ	1	Medium	Overheated terminal/wire
Building 100 Electrical Room	Main Service	Unit #106	СВ	2	Low	Overheating terminals
Building 100 Electrical Room	Main Service	Unit #110	СВ			
Building 100 Electrical Room	Main Service	Unit #113 - Perricone Citrus	СВ			
Building 100 Janitorial Room	Panel H1A	Overall Assembly				
Building 100 Janitorial Room	Panel H1A	Cir #21	СВ	3	Low	Elevated Temp
Building 100 Janitorial Room	Panel H1A	Cir #35	СВ	4	Low	Elevated Temp
Building 100 Janitorial Room	Panel H1A	Cir #38,40,42	СВ	5	High	Overheating Connection
Building 100 Janitorial Room	Panel L1A	Overall Assembly				
Building 100 Janitorial Roon	Panel L1A	Cir #19	СВ	6	Medium	Bad Termination
Building 100 Janitorial Room	Panel L1A	Cir #10	СВ	7	Low	Overheating Connection
Building 100 Janitorial Room	Panel L1B	Overall Assembly				
Building 100 Janitorial Room	Panel L1A-Sub (No Identification	Overall Assembly				
Building 100 Janitorial Room	Transformer (No Identification)	Overall Assembly				
Building 200 Electrical Room	Main Service Switchboard	Overall Assembly				
Building 200 Electrical Room	Main Service	Service Main	СВ			
Building 200 Electrical Room	Main Service	Unit #200 Helman Panel-A	СВ			
Building 200 Electrical Room	Main Service	Unit #201 Helman Panel-B	СВ			
Building 200 Electrical Room	Main Service	Unit #203	СВ			
Building 200 Electrical Room	Main Service	Unit #204 Archies	СВ			
Building 200 Electrical Room	Main Service	Unit #207 Coast	СВ			
Building 200 Electrical Room	Main Service	Unit #208 Coast	СВ			
Building 200 Electrical Room	Main Service	Unit #210	СВ			
Building 200 Electrical Room	Main Service	Unit #211	СВ			
Building 200 Electrical Room	Main Service	Unit #213 Olympic Refers	СВ			
Building 200 Electrical Room	Main Service	Unit #214	СВ			
Building 200 Electrical Room	Main Service	Unit #215 Olympic Refers	СВ			
Building 200 Electrical Room	Main Service	Unit #217 Olympic Refers	СВ			
Building 200 Electrical Room	Main Service	Unit #218	СВ			
Building 200 Electrical Room	Main Service	Unit #219 Southland	СВ			
Building 200 Electrical Room	Main Service	Unit #221 Morita	СВ			
Building 200 Electrical Room	Main Service	Unit #222 Nut House	СВ			
Building 200 Electrical Room	Main Service	Unit #223 Eagle Panel PC	СВ			
Building 200 Electrical Room	Main Service	Unit #224 Eagle Panel LA	СВ			
Building 200 Janitorial Room	Panel (No Identification)	Overall Assembly				
Building 200 Janitorial Room	Panel #212 "House Panel"	Overall Assembly				
Building 200 Janitorial Room	Panel #212-4 "House Sub-Panel"	Overall Assembly				
Building 200 Janitorial Room	Transformer (No Identification)	Overall Assembly	Trans	8	Medium	Corroded Lugs
Building 300 Electrical Room	Main Service Switchboard	Overall Assembly				
Building 300 Electrical Room	Main Service	Service Main				
Building 300 Electrical Room	Main Service	House				
Building 300 Electrical Room	Main Service	Unit #313 Choumas				

INSPECTION REPORT - Equipment/Component List (Master)

(Items requiring attention are highlighted in "Red")

Customer/Facility: Companies Unlimited

Scan Date: Friday, February 13, 2015 IR Tech: Joe Smith

Location	Equipment ID	Component ID	Туре	Rpt #	Priority	Trouble Summary
Building 300 Electrical Room	Main Service	Unit #316 Season				
Building 300 Electrical Room	Main Service	Unit #317				
Building 300 Electrical Room	Main Service	Unit #318 Season				
Building 300 Electrical Room	Main Service	Unit #322 I&T				
Building 300 Electrical Room	Main Service	Unit #324				
Building 300 Electrical Room	Main Service	Unit #325 Davalan				
Building 300 Electrical Room	Main Service	Unit #304 Valley				
Building 300 Electrical Room	Main Service	Unit #305 Valley				
Building 300 Electrical Room	Main Service	Unit #306 Valley				
Building 300 Electrical Room	Main Service	Unit #310 Valley				
Building 300 Electrical Room	Main Service	Unit #307 Valley	СВ	9	Medium	Elevated Temp
Building 300 Electrical Room	Main Service	Unit #311				
Building 300 Janitorial Room	Panel (No Identification)	Overall Assembly				
Building 300 Janitorial Room	Panel Suite 312+360	Overall Assembly				
Building 300 Janitorial Room	Panel Sub Suite 312+360	Overall Assembly				
Building 300 Janitorial Room	Transformer (No Identification)	Overall Assembly				
Building 400 Electrical Room	Main Service Switchboard	Overall Assembly				
Building 400 Electrical Room	Main Service	Service Main				
Building 400 Electrical Room	Main Service	Unit #401				
Building 400 Electrical Room	Main Service	Unit #402				
Building 400 Electrical Room	Main Service	Unit #404				
Building 400 Electrical Room	Main Service	Unit #403 Coast Citrus				
Building 400 Electrical Room	Main Service	Unit #408 Giumarra				
Building 400 Electrical Room	Main Service	Unit #400 House				
Building 400 Electrical Room	Main Service	Unit #409 Giumarra				
Building 400 Electrical Room	Main Service	Unit #410				
Building 400 Electrical Room	Main Service	Unit #406 Umina				
Building 400 Electrical Room	Main Service	Unit #407				
Building 400 Janitorial Room	Panel (No Identification)	Overall Assembly				
Building 400 Janitorial Room	Panel (No Identification)	Overall Assembly				
Building 400 Janitorial Room	Transformer (No Identification)	Overall Assembly				
Building 500 Electrical Room	Main Service Switchboard	Overall Assembly				
Building 500 Electrical Room	Main Service	Service Main				
Building 500 Electrical Room	Main Service	Unit #500 House				
Building 500 Electrical Room	Main Service	Unit #500				
Building 500 Electrical Room	Main Service	Unit #511 American Produce				
Building 500 Electrical Room	Main Service	Unit #512				
Building 500 Electrical Room	Main Service	Unit #513				
Building 500 Electrical Room	Main Service	Unit #502 Banana Co.				
Building 500 Electrical Room	Main Service	Unit #503 Banana Co.				
Building 500 Electrical Room	Main Service	Unit #507 Ogawa				
Building 500 Electrical Room	Main Service	Unit #505 Brostoff				
Building 500 Electrical Room	Main Service	Unit #508 Ogawa				
Building 500 Electrical Room	Main Service	Unit #514 American Produce				
Building 500 Janitorial Room	Panel (No Identification)	Overall Assembly				
Building 500 Janitorial Room	Panel L5A	Overall Assembly				
Building 500 Janitorial Room	Panel L5A	Main CB	СВ	10	High	Overheating Connection
Building 500 Janitorial Room	Transformer (No Identification)	Overall Assembly				

INSPECTION REPORT - Equipment/Component List (Master)

(Items requiring attention are highlighted in "Red")

Customer/Facility: Companies Unlimited

Scan Date: Friday, February 13, 2015 IR Tech: Joe Smith

Location	Equipment ID	Component ID	Type	Rpt#	Priority	Trouble Summary
Building 500 Janitorial Room	Panel Joes Deli	Overall Assembly				
Building 500 Janitorial Room	Transformer (No Identification)	Overall Assembly				
					•	

INSPECTION REPORT - Equipment Voltage

Customer/Facility: Companies Unlimited

Scan Date: 2/13/2015 IR Tech: Joe Smith

						Measure	d Voltage		
Location	Equipment ID	Туре	Volt	L1-2	L2-3	L3-1	L1-G	L2-G	L3-G
Building 100 Electrical Room	Main Service Switchboard	SWB	277/480	467.5	468	469	270	271	271
Building 100 Janitorial Room	Panel L1B	Panel	120/208	200			116	116	
Building 100 Janitorial Room	Panel L1A-Sub (No Identification)	Panel	120/208	200			116	116	
Building 100 Janitorial Room	Transformer (No Identification)	Trans	480x120/208	200			116	116	
Building 200 Electrical Room	Main Service Switchboard	SWB	277/480	468	468	468	270	270	269
Building 300 Electrical Room	Main Service Switchboard	SWB	277/480	472	470	470	272	272	271
Building 400 Electrical Room	Main Service Switchboard	SWB	277/480	475	476	477	275	274	275
Building 500 Electrical Room	Main Service Switchboard	SWB	277/480	474	473	472	273	273	272
									
									
									
									
								-	
								-	
									<u> </u>
								<u> </u>	<u> </u>



Customer: Companies Unlimited IR Tech: Joe Smith Scan Date: 2/13/15

Area: Building 100 Electrical Room

Equip. ID: Main Service Report #: 1

Component ID: Unit #102 Make/Model: ITE FJ63B200 Priority *: Medium

Trouble: Overheated terminal/wire

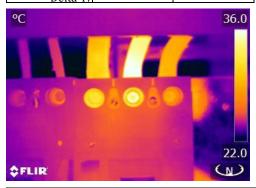
Observations and Recommendations:

Top left lug connection has overheated. Also, the wire insulation at that connection has swollen and been damaged. Recommend replacing the circuit breaker and wire. This may require a shut down of the service so will need to be coordinated appropriately.

Temperature Data				
Hot Spot:	•			
Reference:				
Delta T·				

Environn	nental Data
T Ambient:	23.00°C
Humidity:	
,	

Electr	ical Data (if appli	cable)
Line 1:	`	•
Line 2:		
Line 3		





Left Image #: IR_0111 Camera/Lens: T420/25mm Right Image #: DC_0112

REPAIR REPORT

Repair Date:	
Electrician:	

Repair Notes: (If other than recommended repairs)

Rescan Date:	
IR Tech:	
Image #:	
Hot Spot:	
Reference:	
Delta T:	
Pass/Fail:	•



Customer: Companies Unlimited IR Tech: Joe Smith Scan Date: 2/13/15

Area: Building 100 Electrical Room

Equip. ID: **Main Service**Component ID: **Unit #106**Report #: **2**Make/Model: **ITE FJ63B200**Priority *: **Low**

Trouble: **Overheating terminals**

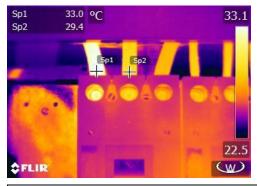
Observations and Recommendations:

Appears to be locallized heating on both the line and load terminals on the left hand pole. Suspect it may be only loose connection so recommend tourqing. If no connection errors found please measure voltage drop and reportresults for furthur handling.

T	'emperature Data	1
Hot Spot:	33.00°C	91.40°F
Reference:	29.40°C	84.92°F
Delta T:	3.60°C	6.48°F

Environmental Data				
T Ambient:	23.00°C			
Humidity:	25%			

Electrical Data (if applicable)				
Line 1:	66.0 A	•		
Line 2:	65.0 A			
Line 3:	68.0 A			





Left Image #: IR_0119 Camera/Lens: T420/25mm Right Image #: DC_0120

REPAIR REPORT

Repair Date:	
Electrician:	

Repair Notes: (If other than recommended repairs)

Rescan Date:		
IR Tech:		
Image #:		
Hot Spot:		
Reference:		
Delta T:		
Pass/Fail:	•	



Customer: Companies Unlimited IR Tech: Joe Smith Scan Date: 2/13/15

Area: Building 100 Janitorial Room

Equip. ID: **Panel H1A**Component ID: **Cir #21**Report #: 3

Priority *: **Low**

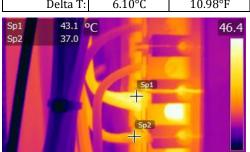
Trouble: Elevated Temp

Observations and Recommendations:

Connection at elevated temperature. Two wires are terminated in the same lug which can cause poor connection.

Recommend verification of loading and, if acceptable, splicing condutors to single pig tail and re-terminate to breaker.

Temperature Data		
Hot Spot:	43.10°C	109.58°F
Reference:	37.00°C	98.60°F
Delta T∙	6.10°C	10 98°F



Environmental Data	
T Ambient:	24.00°C
Humidity:	45%

Electr	ical Data (if appli	cable)
Line 1:	15.2 A	
Line 2:		
Line 3:		



Left Image #: IR_0129 Camera/Lens: T420/25mm Right Image #: DC_0130

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REPAIR REPORT

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Repair Date:	
Electrician:	

Repair Notes: (If other than recommended repairs)

Rescan Date:	
IR Tech:	
Image #:	
Hot Spot:	
Reference:	
Delta T:	
Pass/Fail:	-



Customer: Companies Unlimited IR Tech: Joe Smith Scan Date: 2/13/15

Area: Building 100 Janitorial Room

Equip. ID: Panel H1A Report #: 4 Component ID: Cir #35 Priority *: Low

Observations and Recommendations:

Trouble: Elevated Temp

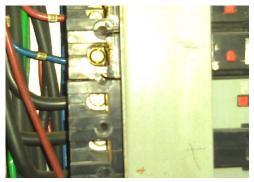
Connection at elevated temperature. Appears to be localized at the lug. Recommend disconnecting and re-terminating the conductor.

Temperature Data		
Hot Spot:	38.70°C	101.66°F
Reference:	35.70°C	96.26°F
Delta T:	3.00°C	5.40°F

	Hot Spot:	38.70°C	101.66°F
	Reference:	35.70°C	96.26°F
	Delta T:	3.00°C	5.40°F
Sp1	38.7	C	40.5
Sp2	35.7	Sp2	Widelines
DHI		-	

Environmental Data	
T Ambient:	24.00°C
Humidity:	45%
mumuity.	4370

Electrical Data (if applicable)		
Line 1:	7.3 A	
Line 2:		
Line 3:		



Left Image #: IR_0135 Camera/Lens: T420/25mm Right Image #: DC_0136

REPAIR REPORT

Sp1 - Sp2

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Repair Date:	
Electrician:	

Repair Notes: (If other than recommended repairs)

Rescan Date:	
IR Tech:	
Image #:	
Hot Spot:	
Reference:	
Delta T:	
Pass/Fail:	•



Customer: Companies Unlimited IR Tech: Joe Smith Scan Date: 2/13/15

Area: Building 100 Janitorial Room

Equip. ID: **Panel H1A**Component ID: **Cir #38,40,42**Make/Model: **ITE E43B040**Report #: **5**Priority *: **High**

Trouble: Overheating Connection

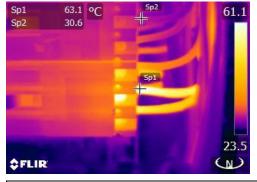
Observations and Recommendations:

Center load terminal is overheating, in fact all load connections appear elevated so suspect poor connections. Recommend re-terminating each load conductor and re-test with spot thermometer.

Temperature Data		
Hot Spot:	63.10°C	145.58°F
Reference:	30.60°C	87.08°F
Delta T∙	32.50°C	58 50°F

Environmental Data		
T Ambient:	24.00°C	
Humidity:	45%	

Electrical Data (if applicable)		
Line 1:	7.8 A	
Line 2:	13.8 A	
Line 3:	13.4 A	





Left Image #: IR_0143 Camera/Lens: T420/25mm Right Image #: DC_0144

REPAIR REPORT

Repair Date:	
Electrician:	

Repair Notes: (If other than recommended repairs)

Rescan Date:		
IR Tech:		
Image #:		
Hot Spot:		
Reference:		
Delta T:		
Pass/Fail:	•	



Customer: Companies Unlimited IR Tech: Joe Smith Scan Date: 2/13/15

Area: Building 100 Janitorial Room

Equip. ID: **Panel L1A** Report #: **6**

Component ID: Cir #19 Priority *: Medium

Trouble: Bad Termination

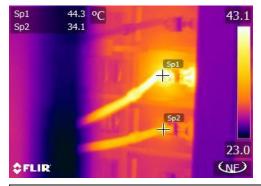
Observations and Recommendations:

Connection at elevated temperature. Termination does not include all strands of conductor. Recommend re-termination.

Temperature Data		
Hot Spot:	44.30°C	111.74°F
Reference:	34.10°C	93.38°F
Delta T:	10.20°C	18.36°F

Environmental Data		
T Ambient:	24.00°C	
Humidity:	45%	

Electrical Data (if applicable)		
Line 1:	5.6 A	
Line 2:		
Line 3:		





Left Image #: IR_0147 Camera/Lens: T420/25mm Right Image #: DC_0148

REPAIR REPORT

Repair Date:	
Electrician:	

Repair Notes: (If other than recommended repairs)

Rescan Date:	
IR Tech:	
Image #:	
Hot Spot:	
Reference:	
Delta T:	
Pass/Fail:	-



Customer: Companies Unlimited IR Tech: Joe Smith Scan Date: 2/13/15

Area: Building 100 Janitorial Room

Equip. ID: Panel L1A

Component ID: Cir #10

Trouble: Overheating Connection

Report #: 7

Priority *: Low

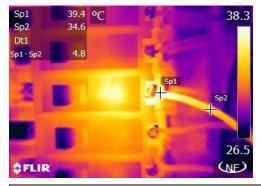
Observations and Recommendations:

Connection at elevated temperature. Appears to be localized at the lug. Recommend disconnecting and re-terminating the conductor.

Temperature Data		
Hot Spot:	39.40°C	102.92°F
Reference:	34.60°C	94.28°F
Delta T:	4.80°C	8.64°F

Environmental Data		
T Ambient:	24.00°C	
Humidity:	45%	

Electrical Data (if applicable)		
Line 1:	11.8 A	
Line 2:		
Line 3:		





Left Image #: IR_0153 Camera/Lens: T420/25mm Right Image #: DC_0154

REPAIR REPORT

Repair Date:	
Electrician:	

Repair Notes: (If other than recommended repairs)

Rescan Date:		
IR Tech:		
Image #:		
Hot Spot:		
Reference:		
Delta T:		
Pass/Fail:	•	



Customer: Companies Unlimited IR Tech: Joe Smith Scan Date: 2/13/15

Area: Building 200 Janitorial Room

Equip. ID: **Transformer (No Identification)**Report #: **8**

Component ID: Overall Assembly Priority *: Medium

Trouble: **Corroded Lugs**Observations and Recommendations:

Wiring connections are all extremely corroded. Recommend replacing all lugs, cutting away damaged wiring and reterminating.

Temperature Data		
Hot Spot:		
Reference:		
Delta T:		

Environmental Data		
T Ambient:	21.00°C	
Humidity:	23%	

Electrical Data (if applicable)		
Line 1:		
Line 2:		
Line 3:		



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Left Image #: 84420 Camera/Lens: T420/25mm Right Image #: 84425

REPAIR REPORT

Repair Date:	
Electrician:	

Repair Notes: (If other than recommended repairs)

Rescan Date:	
IR Tech:	
Image #:	
Hot Spot:	
Reference:	
Delta T:	
Pass/Fail:	-



Customer: Companies Unlimited IR Tech: Joe Smith Scan Date: 2/13/15

Area: Building 300 Electrical Room

Equip. ID: Main Service Report #: 9

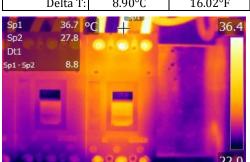
Component ID: Unit #307 Valley Make/Model: ITE FJ63B200 Priority *: Medium

Trouble: Elevated Temp

Observations and Recommendations:

Line side terminals are at slightly elevated temperatures. Recommend re-torqueing connections. This work should be done during a shut down or while using proper PPE.

Temperature Data		
Hot Spot:	36.70°C	98.06°F
Reference:	27.80°C	82.04°F
Delta T:	8.90°C	16.02°F



Environmental Data		
T Ambient:	21.00°C	
Humidity:	55%	

Electrical Data (if applicable)		
Line 1:	85.0 A	
Line 2:	90.0 A	
Line 3:	95.0 A	



Left Image #: IR_0207 Camera/Lens: T420/25mm Right Image #: DC_0208

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REPAIR REPORT

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Repair Date:	
Electrician:	

Repair Notes: (If other than recommended repairs)

Rescan Date:	
IR Tech:	
Image #:	
Hot Spot:	
Reference:	
Delta T:	
Pass/Fail:	•



Customer: Companies Unlimited IR Tech: Joe Smith Scan Date: 2/13/15

Area: Building 500 Janitorial Room

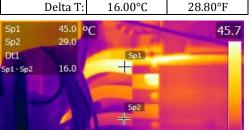
Equip. ID: **Panel L5A**Component ID: **Main CB**Report #: **10**Make/Model: **ITE E43B100**Priority *: **High**

Trouble: Overheating Connection

Observations and Recommendations:

Line #1 Connection at elevated temperature. Appears to be localized at the lug. Recommend disconnecting and reterminating the conductor.

Temperature Data						
Hot Spot: 45.00°C 113.00°I						
Reference:	29.00°C	84.20°F				
Delta T:	16.00°C	28.80°F				



Environmental Data			
T Ambient:	21.00°C		
Humidity:	55%		

Electrical Data (if applicable)			
Line 1:			
Line 2:	12.0 A		
Line 3:	12.0 A		



Left Image #: IR_0219 Camera/Lens: T420/25mm Right Image #: DC_0220

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REPAIR REPORT

Repair Date:	
Electrician:	

Repair Notes: (If other than recommended repairs)

Rescan Date:	
IR Tech:	
Image #:	
Hot Spot:	
Reference:	
Delta T:	
Pass/Fail:	·

INSPECTION REPORT - Trouble Summary

Customer/Facility: Companies Unlimited

Scan Date: 2/13/2015 IR Tech: Joe Smith

Location Building 100 Electrical Room	Equipment ID Main Service	Component ID Unit #102	Type CB	Rpt #	Priority Medium	Trouble Summary Overheated terminal/wire
	Main Service	Unit #106	CB	2	Low	Overheating terminals
Building 100 Janitorial Room	Panel H1A	Cir #21	СВ	3	Low	Elevated Temp
Building 100 Janitorial Room	Panel H1A	Cir #35	СВ	4	Low	Elevated Temp
Building 100 Janitorial Room		Cir #38,40,42	СВ	5	High	Overheating Connection
Building 100 Janitorial Room	Panel L1A	Cir #19	СВ	6	Medium	Bad Termination
	Panel L1A	Cir #10	СВ	7	Low	Overheating Connection
	Transformer (No Identification)		Trans	8	Medium	Corroded Lugs
	Main Service	Unit #307 Valley	СВ	9		Elevated Temp
Building 500 Janitorial Room	Panel L5A	Main CB	СВ	10	High	Overheating Connection