JERSEY INFRARED CONSULTANTS

P.O. Box 39
Burlington, NJ 08016
Phone: (609) 386-1281
Fax: (609) 387-4334

INFRARED ELECTRICAL SYSTEM SURVEY

for

ABC Company
123 Main Street
Anytown, USA

at

#1 Elementary School
#2 Elementary School
#3 Elementary School
#4 Elementary School
Middle School
Anytown, US

January 9, 2013

Our Job Number: 13-0000.00

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January 9, 2013

Mr. Smith
ABC Company
123 Main Street
Anytown, USA

RE: INFRARED ELECTRICAL SYSTEM SURVEY REPORT
OUR JOB NUMBER: 13-0000.00

Dear Mr. Smith:

Here is our completed report and CD-ROM for the Infrared Electrical System Survey performed for the ABC Company at the Anytown Public School facilities listed below on January 3 and 4, 2013.

#1 Elementary School
#2 Elementary School
#3 Elementary School
#4 Elementary School
Middle School

Thank you for this opportunity to serve you. If you have any questions or if we can be of further assistance, please feel free to call.

Very truly yours,

MC
Level III
Infraspection Institute Certified Infrared Thermographer

MC:clt
Enclosure

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INTRODUCTION TO THE INFRARED ELECTRICAL SYSTEM SURVEY

Infrared thermography is a form of non-contact, non-destructive testing used to detect and document thermal patterns and associated temperatures across a given surface. Performed regularly, infrared inspections can help to identify incipient equipment failures.

Our Infrared Surveys are performed by Certified Thermographers using a portable infrared imaging system called FLIR ThermaCAM. This equipment detects infrared energy emitted from an object and converts it into an image which is displayed on a monitor screen.

Because infrared energy is a direct and proportional function of temperature, the video image is designed to depict temperature levels on the monitor. This thermal image looks very similar to a black and white or a color television picture where the various shades of color represent different temperature levels throughout the chosen temperature range. In the black and white mode, darker shades of gray correspond to lower temperatures while lighter shades of gray correspond to higher temperatures. In the color mode, colors are matched to the reference bar at the side of the monitor screen. Temperature values increase for those colors which appear closer to the top of the scale.

Our FLIR ThermaCAM equipment has the capability to sense object temperatures from -10° Celsius to +1500° Celsius, with sensitivity of as little as 0.07 Celsius degrees.

When an area or component with an unusual temperature differential is located, our thermal imager is used to measure the temperature of the problem area.

Once the temperature and location of the problem area have been noted, a photograph is taken of the image displayed on the FLIR ThermaCAM monitor. These Thermograms, along with a standard photograph and our problem definition, provide you with the necessary information to correct a problem before it becomes serious.

For your reference as a maintenance scheduling tool, the following temperature differential table is presented. This table is intended only as a guideline based on our experience with electrical system inspections. Actual scheduling of repairs is the customer's responsibility.

Temp. Differential:	Priority 3	1 - 3 C°	Possible deficiency; inspect
	Priority 2	4 - 15 C°	Repair as time permits
	Priority 1	Over 15 C°	Major deficiency; repair as soon as possible

It must be noted that the above temperature differential/severity guide is based on our experience with electro/mechanical inspections. Although some of the problems identified in this report may seem insignificant, the ultimate decision to repair them is the customer's responsibility.

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January 9, 2013

ABC Company
123 Main Street
Anytown, USA

THERMOGRAPHER'S COMMENTS
OUR JOB NUMBER: 13-0000.00

On January 3 and 4, 2013, an Infrared Electrical System Survey was performed for the ABC Company at Anytown Public Schools listed below:

#1 Elementary School
#2 Elementary School
#3 Elementary School
#4 Elementary School
Middle School

The Survey covered electrical equipment in the areas listed on the "List of Equipment Surveyed".

Eight (8) problems were located during the Survey, all of which required thermograms. All problems were photographically recorded. These photographs, along with their respective thermograms and a brief description of each problem, appear on the following pages.

It should be noted that the problem described in picture number 6 has extremely high temperature differentials. This problem requires immediate attention.

It is recommended that the cause of each problem be investigated and that the proper corrective measures be taken. A follow-up Survey should then be performed once repairs have been made. Infrared surveys are then recommended at least once a year as part of a preventive maintenance program.

Please note that all inspections are performed with the electrical system in an "as found" condition. No attempt is made to verify that the system is under full load at the time of the infrared survey.

Ammeter readings, where provided, are given as a reference only and are not necessarily indicative of an overloaded circuit.

This report depicts thermal patterns in electrical system components at the time of the infrared survey. Assurances regarding the integrity of the electrical system are neither provided nor implied.

MC
Level III
Infraspection Institute Certified Infrared Thermographer

MC:clt

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Avoided Cost Analysis Report
For
Infrared Electrical System Surveys

This Avoided Cost Analysis Report calculates the estimated cost savings realized from this Infrared Survey. The calculations utilized in this report are based upon insurance industry cost estimates for loss experience with commercial and industrial facilities. These calculations take into account the severity of each exception along with the overall size of the facility.

The calculations shown below multiply the number of exceptions found during the Survey by the severity of each exception. By inputting the cost to perform the Survey, the gross potential savings from this report are automatically calculated. The calculations are based on the cost of the Infrared Survey and do not include preparation or remediation figures.

Because no one can actually calculate the exact avoided costs provided by an infrared inspection, the numbers contained in the report are intended to serve as a guide.

Total # of Critical or Serious Anomalies =	0	000.00
Total # of Intermediate or Minor Anomalies =	0	000.00
Cost of Infrared Survey		000.00
Gross Potential Savings		000.00

ABC Company

TABLE OF CONTENTS
OUR JOB NUMBER: 13-0000.00

PICTURE	LOCATION	EQUIPMENT	PRIORITY
1	#1 Elementary School, Boiler Room	Power Panel, BA, Main Circuit Breaker	2
2	#1 Elementary School, Boiler Room	Circuit Breaker, Disconnect for AP-1 Panel	2
3	Middle School, Electrical Panel Room	Power Panel, PP6, Main Circuit Breaker	3
4	Middle School, Electrical Panel Room	ATS, ATS-2	2
5	Middle School, 1st Floor, Electrical Closet A -1TS-1	Distribution Panel, DP4, Circuit Breakers 1, 3, 5	2
6	#3 Elementary School, Switchgear Room	Switchgear, Section 4, XFMR	1
7	#3 Elementary School, Storage at Room 7	Distribution Panel, HVC, Circuit Breaker 3	2
8	#3 Elementary School, Storage at Room 36	Power Panel, PP2, Main Circuit Breaker	2

Database Terminology

Upon entering into an area, our personnel collect the necessary data to construct the database by recording the nameplate information on each piece of electrical equipment.

Listed below are some common abbreviations used for equipment type.

Air Handler Unit	AHU	Lightning Arrestor	L A
Automatic Transfer Switch	A T S	Lighting Contactor	L C
Battery Rack	B A T T	Metering Cabinet	M E T
Bus Duct	B U S	Motor	M T R
Capacitor	C A P	Motor Control Center	M C C
Circuit Breaker	C B	Motor Controller	M C
Control Cabinet	C C	Oil Circuit Breaker	O C B
Current Transformer	C T	Peckerhead	P K H D
Disconnect Switch	D I S C	Potential Transformer	P T
Distribution Panel	D P	Power Distribution Unit	P D U
Emergency Distribution Panel	E D P	Power Panel	P P
Emergency Power Panel	E P P	Power Transformer	X F M R
Emerg. Power Transformers	E X F M R	Switchgear	S G
Environmental Control Unit	E C U	Uninterruptable Power Supply	U P S
Fire Pump Panel	F P P	Voltage Regulator	V R
Generator	G E N	Variable Speed Drive	V S D
Incoming Lines	I L	Variable Frequency Drive	V F D
Junction Box	J B		

In Service	Equipment is observed in the "on" position. Unless otherwise noted, no attempt is made to verify that the device is under load.
Picture No.	Corresponds to the predictive maintenance inspection card number.
Delta T	Temperature rise noted on the predictive maintenance inspection card.
Visual	Notation for broken parts, excessive dirt, rust, dead animals, etc. The results are either pass (P) or fail (F).
Ultrasound	Results of ultrasonic test data (when performed). The results are either pass (P) or fail (F).
Follow-up Required	Indicates a follow-up Survey should be performed.
Comments	Summary of findings. More details can be found on the predictive maintenance inspection card.

Route No.: 1
Date: 1/3/2013

List of Equipment Surveyed

Location	Equipment Type	Equipment ID	In Service	Picture No.	Priority	Visual	Ultra Sound
#1 Elem. School							
Boiler Room	PP	No ID	Yes			Pass	
Boiler Room	PP	BB	Yes			Pass	
Boiler Room	CONT	HV-2	Yes			Pass	
Boiler Room	PP	BA	Yes	1		Pass	
Boiler Room	PP	Normal	Yes			Pass	
Boiler Room	CONT	P1-B	Yes			Pass	
Boiler Room	CONT	P1-A	Yes			Pass	
Boiler Room	CONT	P5	Yes			Pass	
Boiler Room	CONT	P4	Yes			Pass	
Boiler Room	PP	ECP	Yes			Pass	
Boiler Room	CB	Disconnect for ECP Panel	Yes			Pass	
Boiler Room	CB	Disconnect for AP-1 Panel	Yes	2		Pass	
Boiler Room	MC	Tower Fan	Yes			Pass	
Boiler Room	MC	P-2A, P-2B	Yes			Pass	
Boiler Room	PP	EM	Yes			Pass	
Boiler Room	ATS	Cummins	Yes			Pass	
Boiler Room	CB	Disconnect for ATS	Yes			Pass	
Boiler Room	DP	No ID	Yes			Pass	
Boiler Room	PP	Trailer 1 & 2	Yes			Pass	
Boiler Room	PP	Trailer 3 & 4	Yes			Pass	
#2 Elem. School							
Garage	PP	KP-1, Left	Yes			Pass	
Garage	PP	KP-1, Right	Yes			Pass	
Garage	PP	No ID	Yes			Pass	

Note: In service designates device was observed in the "On Position". Unless otherwise noted, no attempt is made to verify that device is under load.
*NS indicates Equipment Not Surveyed

Route No.: 1
Date: 1/3/2013

List of Equipment Surveyed

#2 Elem. School continued:

Location	Equipment Type	Equipment ID	In Service	Picture No.	Priority	Visual	Ultra Sound
#2 Elem. School							
Storage Room	PP	RP-2	Yes			Pass	
Storage Room	PP	LP-2	Yes			Pass	
#2 Elem. School							
Grade 1 Storage	PP	EM-3	Yes			Pass	
Grade 1 Storage	PP	EM-4	Yes			Pass	
Grade 1 Storage	PP	LP-7	Yes			Pass	
#2 Elem. School							
Main Electrical Room	DP	No ID, MAin	Yes			Pass	
Main Electrical Room	DISC	No ID, Main, Through Vents	Yes			Pass	
Main Electrical Room	ATS	ASCO	Yes			Pass	
Main Electrical Room	PP	EM-1	Yes			Pass	
Main Electrical Room	PP	EM-2	Yes			Pass	
#2 Elem. School							
Boiler Room	PP	BP-1	Yes			Pass	
Boiler Room	PP	BP-2	Yes			Pass	
Boiler Room	CONT	P1-P2	Yes			Pass	
Boiler Room	CONT	P3	Yes			Pass	
Boiler Room	CONT	P4	Yes			Pass	
Boiler Room	CONT	P5	Yes			Pass	
Boiler Room	CONT	P6	Yes			Pass	
Boiler Room	CONT	P7	Yes			Pass	
Boiler Room	CONT	P8	Yes			Pass	
Boiler Room	CONT	P9	Yes			Pass	

Note: In service designates device was observed in the "On Position". Unless otherwise noted, no attempt is made to verify that device is under load.
*NS indicates Equipment Not Surveyed

Route No.: 1
Date: 1/3/2013

List of Equipment Surveyed

Middle Schl., 1st Floor continued:

Location	Equipment Type	Equipment ID	In Service	Picture No.	Priority	Visual	Ultra Sound
Middle Schl., 1st Floor							
Main Electrical Room	DP	No ID, Left	Yes			Pass	
Main Electrical Room	DP	No ID, Right	Yes			Pass	
Main Electrical Room	DISC	Main, Through Vents	Yes			Pass	
Middle Schl., 1st Floor							
Electrical Panel Room	PP	PP6B	Yes			Pass	
Electrical Panel Room	PP	PP6A	Yes			Pass	
Electrical Panel Room	PP	PP6	Yes	3		Pass	
Electrical Panel Room	PP	LP6	Yes			Pass	
Electrical Panel Room	PP	DP6	Yes			Pass	
Electrical Panel Room	PP	EP2A	Yes			Pass	
Electrical Panel Room	PP	EDP	Yes			Pass	
Electrical Panel Room	ATS	ATS-2	Yes	4		Pass	
Electrical Panel Room	ATS	ATS-1	Yes			Pass	
Electrical Panel Room	PP	EP-1	Yes			Pass	
Electrical Panel Room	PP	EP-2	Yes			Pass	
Electrical Panel Room	PP	CP-6	Yes			Pass	
Electrical Panel Room	PP	CP-6A	Yes			Pass	
Electrical Panel Room	PP	PP26	Yes			Pass	
Electrical Panel Room	PP	PP26A	Yes			Pass	
Electrical Panel Room	PP	PP26B	Yes			Pass	
Middle Schl., 1st Floor							
Electrical Closet B-1TS-1	CONT	No ID, Left	Yes			Pass	
Electrical Closet B-1TS-1	CONT	No ID, Right	Yes			Pass	
Electrical Closet B-1TS-1	PP	PP1	Yes			Pass	
Electrical Closet B-1TS-1	PP	PP21	Yes			Pass	

Note: In service designates device was observed in the "On Position". Unless otherwise noted, no attempt is made to verify that device is under load.
*NS indicates Equipment Not Surveyed

Route No.: 1
Date: 1/3/2013

List of Equipment Surveyed

Middle Schl., 1st Floor continued:

Location	Equipment Type	Equipment ID	In Service	Picture No.	Priority	Visual	Ultra Sound
Electrical Closet B-1TS-1	DP	DP1	Yes			Pass	
Electrical Closet B-1TS-1	PP	LP1	Yes			Pass	
Electrical Closet B-1TS-1	PP	CP1	Yes			Pass	
Electrical Closet B-1TS-1	PP	CP1A	Yes			Pass	
Electrical Closet B-1TS-1	CONT	No ID	Yes			Pass	
Middle Schl., 2nd Floor							
Electrical Closet B-2TS-2	PP	PP7	Yes			Pass	
Electrical Closet B-2TS-2	CONT	No ID, Left	Yes			Pass	
Electrical Closet B-2TS-2	CONT	No ID, Right	Yes			Pass	
Electrical Closet B-2TS-2	PP	CP7	Yes			Pass	
Electrical Closet B-2TS-2	DP	DP7	Yes			Pass	
Electrical Closet B-2TS-2	PP	LP7	Yes			Pass	
Electrical Closet B-2TS-2	PP	PP27	Yes			Pass	
Middle Schl., 1st Floor							
Electrical Closet A-1TS-1	PP	PP24	Yes			Pass	
Electrical Closet A-1TS-1	PP	PP4A	Yes			Pass	
Electrical Closet A-1TS-1	PP	PP4	Yes			Pass	
Electrical Closet A-1TS-1	PP	LP4	Yes			Pass	
Electrical Closet A-1TS-1	DP	DP4	Yes	5		Pass	
Electrical Closet A-1TS-1	CONT	No ID, Left	Yes			Pass	
Electrical Closet A-1TS-1	CONT	No ID, Middle	Yes			Pass	
Electrical Closet A-1TS-1	CONT	No ID, Right	Yes			Pass	
Electrical Closet A-1TS-1	PP	CP4	Yes			Pass	
Electrical Closet A-1TS-1	PP	CP4A	Yes			Pass	
Middle Schl., 2nd Floor							
Electrical Closet A-2TS-2	DP	DP3	Yes			Pass	

Note: In service designates device was observed in the "On Position". Unless otherwise noted, no attempt is made to verify that device is under load.
*NS indicates Equipment Not Surveyed

Route No.: 1
Date: 1/3/2013

List of Equipment Surveyed

Middle Schl., 2nd Floor continued:

Location	Equipment Type	Equipment ID	In Service	Picture No.	Priority	Visual	Ultra Sound
Electrical Closet A-2TS-2	PP	LP3	Yes			Pass	
Electrical Closet A-2TS-2	PP	PP23	Yes			Pass	
Electrical Closet A-2TS-2	PP	PP3	Yes			Pass	
Electrical Closet A-2TS-2	CONT	No ID, Left	Yes			Pass	
Electrical Closet A-2TS-2	CONT	No ID, Right	Yes			Pass	
Electrical Closet A-2TS-2	PP	CP3	Yes			Pass	

Note: In service designates device was observed in the "On Position". Unless otherwise noted, no attempt is made to verify that device is under load.
*NS indicates Equipment Not Surveyed

Route No.: 2
Date: 1/4/2013

List of Equipment Surveyed

Location	Equipment Type	Equipment ID	In Service	Picture No.	Priority	Visual	Ultra Sound
#3 Elementary School							
Main Electrical Room	DP	Main	Yes			Pass	
Main Electrical Room	DISC	Main	Yes			Pass	
Main Electrical Room	ATS	Optional - Standby	Yes			Pass	
Main Electrical Room	PP	EM-1	Yes			Pass	
Main Electrical Room	PP	EM-2	Yes			Pass	
#3 Elementary School							
Boiler Room	PP	BP-1	Yes			Pass	
Boiler Room	PP	BP-2	Yes			Pass	
Boiler Room	ATS	Life Safety	Yes			Pass	
Boiler Room	CONT	P-8	Yes			Pass	
Boiler Room	CONT	P-9	Yes			Pass	
Boiler Room	CONT	P1-P2	Yes			Pass	
Boiler Room	CONT	P-3	Yes			Pass	
#3 Elementary School							
Garage	PP	KP-1, Left	Yes			Pass	
Garage	PP	KP-1, Right	Yes			Pass	
Garage	PP	No ID	Yes			Pass	
#3 Elementary School							
Storage Room	PP	LP-2	Yes			Pass	
Storage Room	PP	RP-2	Yes			Pass	
#3 Elementary School							
Grade 1 Storage	PP	LP-7	Yes			Pass	
Grade 1 Storage	PP	EM-3	Yes			Pass	

Note: In service designates device was observed in the "On Position". Unless otherwise noted, no attempt is made to verify that device is under load.
*NS indicates Equipment Not Surveyed

Route No.: 2
Date: 1/4/2013

List of Equipment Surveyed

#3 Elementary School continued:

Location	Equipment Type	Equipment ID	In Service	Picture No.	Priority	Visual	Ultra Sound
Grade 1 Storage	PP	EM-4	Yes			Pass	
#4 Elementary School							
Switchgear Room	DP	480 Taps	Yes			N/A	
Switchgear Room	SWGR	Section 4	Yes	6		Pass	
Switchgear Room	DP	Heating and Ventilating	Yes			N/A	
Switchgear Room	PP	Lighting Panel A	Yes			N/A	
Switchgear Room	PP	Receptacle and Lighting A	Yes			N/A	
Switchgear Room	PP	F	Yes			Pass	
#4 Elementary School							
Storage	PP	HVAC-2	Yes			Pass	
#4 Elementary School							
Storage at Room 7	PP	No ID	Yes			Pass	
Storage at Room 7	PP	HVB	Yes			Pass	
Storage at Room 7	DP	HVC	Yes	7		Pass	
Storage at Room 7	PP	REC-B	Yes			Pass	
Storage at Room 7	PP	No ID, SubPanel	Yes			Pass	
Storage at Room 7	PP	B-2	Yes			Pass	
Storage at Room 7	CONT	No ID	Yes			Pass	
#4 Elementary School							
Panel Room at 41	DP	DP-1, Right	Yes			Pass	
Panel Room at 41	DP	DP-1, Left	Yes			Pass	
Panel Room at 41	PP	HL	Yes			Pass	
Panel Room at 41	PP	L	Yes			Pass	
Panel Room at 41	PP	L2	Yes			Pass	
Panel Room at 41	DP	DP2	Yes			Pass	

Note: In service designates device was observed in the "On Position". Unless otherwise noted, no attempt is made to verify that device is under load.
*NS indicates Equipment Not Surveyed

Our Job Number: 13-0000.00

Route No.: 2
Date: 1/4/2013

List of Equipment Surveyed

#4 Elementary School continued:

Location	Equipment Type	Equipment ID	In Service	Picture No.	Priority	Visual	Ultra Sound
#4 Elementary School							
Storage Room at 36	PP	PP1	Yes			Pass	
Storage Room at 36	PP	LP1	Yes			Pass	
Storage Room at 36	PP	LP2	Yes			Pass	
Storage Room at 36	PP	PP2	Yes	8		Pass	

Note: In service designates device was observed in the "On Position". Unless otherwise noted, no attempt is made to verify that device is under load.
*NS indicates Equipment Not Surveyed

Area/Picture No. 1 **Job No.** 13-0000.00 **Date** 1/3/13

Location #1 Elementary School, Boiler Room

Equipment Power Panel, BA, Main Circuit Breaker

Wind Speed N/A **Wind From** N/A **Sky** Indoor

Emiss. 1.00 **B/G** N/A° **Distance** 5' **Lens** 1x

Rated Load 175 Amps **Measured Load** 18 Amps **% Load** 10.29

Ambient Temp 20°C 7 ° **Rise Over** Left Connection

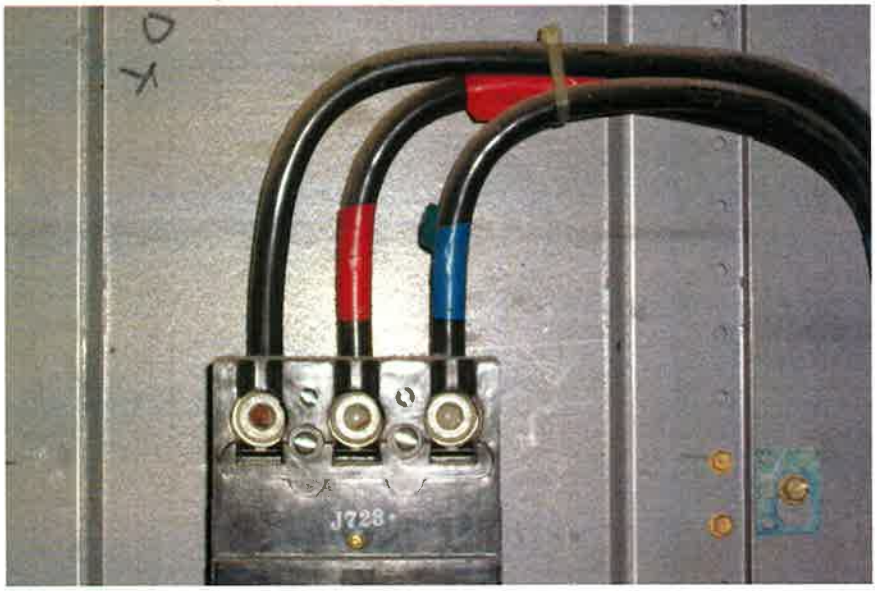
Comments Conductor Connection Temperatures:

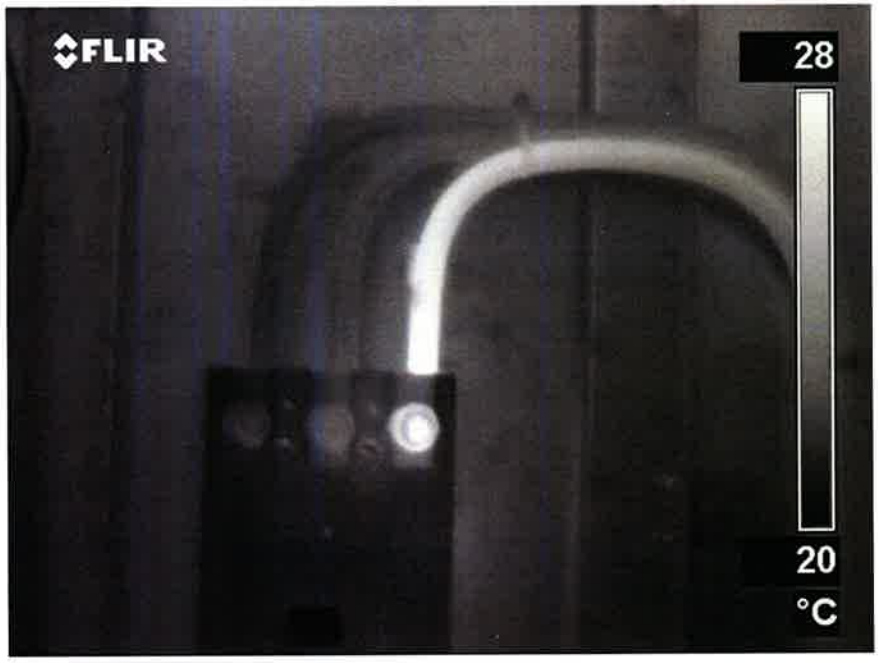
	Left	Middle	Right
	22°C	23°C	29°C
Amps	18	---	16

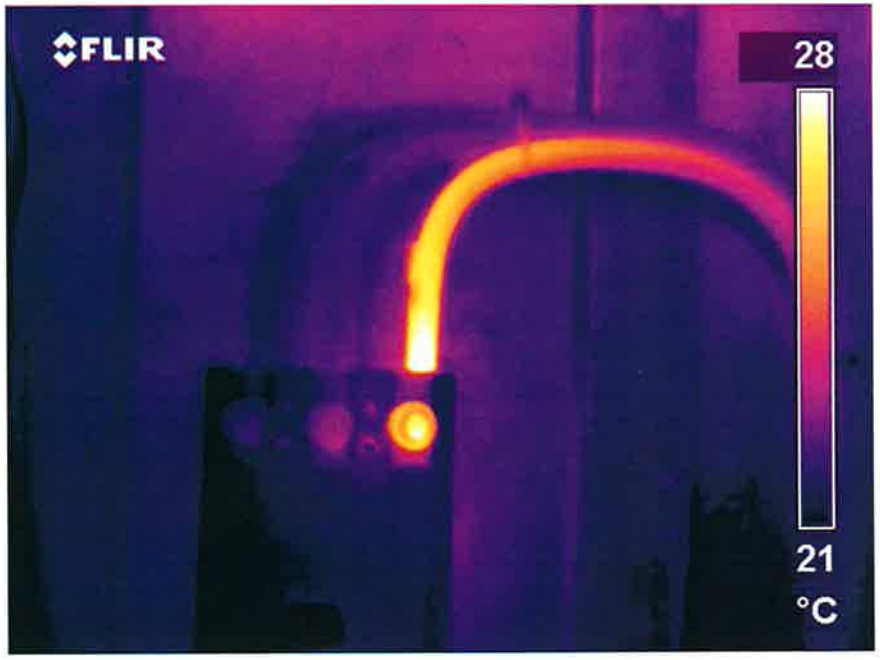
Priority 2

Repair Check Date ° **Rise Over**

Notes







Area/Picture No. 2 **Job No.** 13-0000.00 **Date** 1/3/13

Location #1 Elementary School, Boiler Room

Equipment Circuit Breaker, Disconnect for AP-1 Panel

Wind Speed N/A **Wind From** N/A **Sky** Indoor

Emiss. 1.00 **B/G** N/A° **Distance** 5' **Lens** 1x

Rated Load 80 Amps **Measured Load** 33 Amps **% Load** 41.25

Ambient Temp 20°C 4 ° **Rise Over** Upper Right Connection

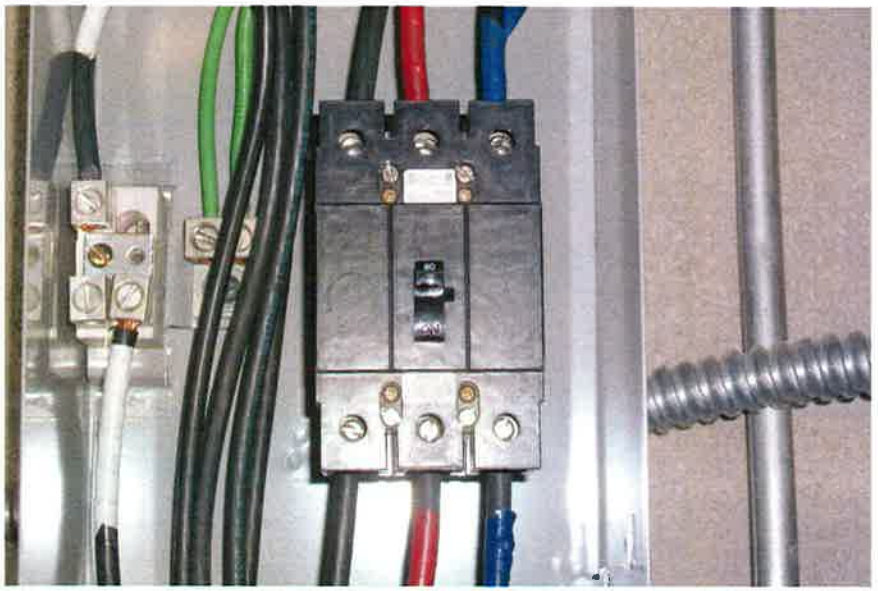
Comments Conductor Connection Temperatures:

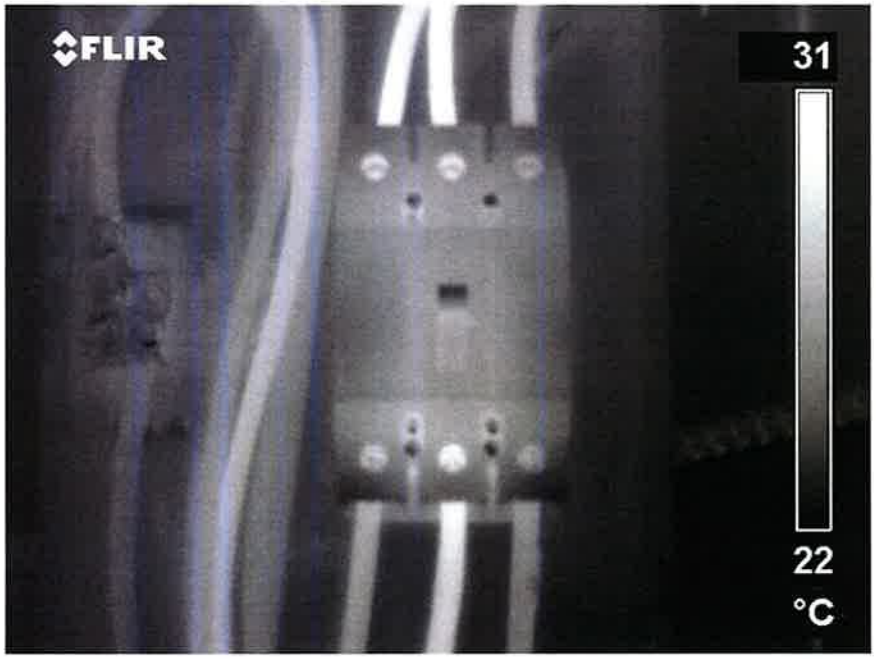
	Left	Middle	Right
Upper	31°C	31°C	27°C
Lower	27°C	30°C	27°C
Amps	18	33	18.6

Priority 2

Repair Check Date **° Rise Over**

Notes





Area/Picture No. 3 **Job No.** 13-0000.00 **Date** 1/3/13

Location Middle School, Electrical Panel Room

Equipment Power Panel, PP6, Main Circuit Breaker

Wind Speed N/A **Wind From** N/A **Sky** Indoor

Emiss. 1.00 **B/G** N/A° **Distance** 5' **Lens** 1x

Rated Load N/A **Measured Load** N/A **% Load**

Ambient Temp 17°C 3 **° Rise Over** Right Connection

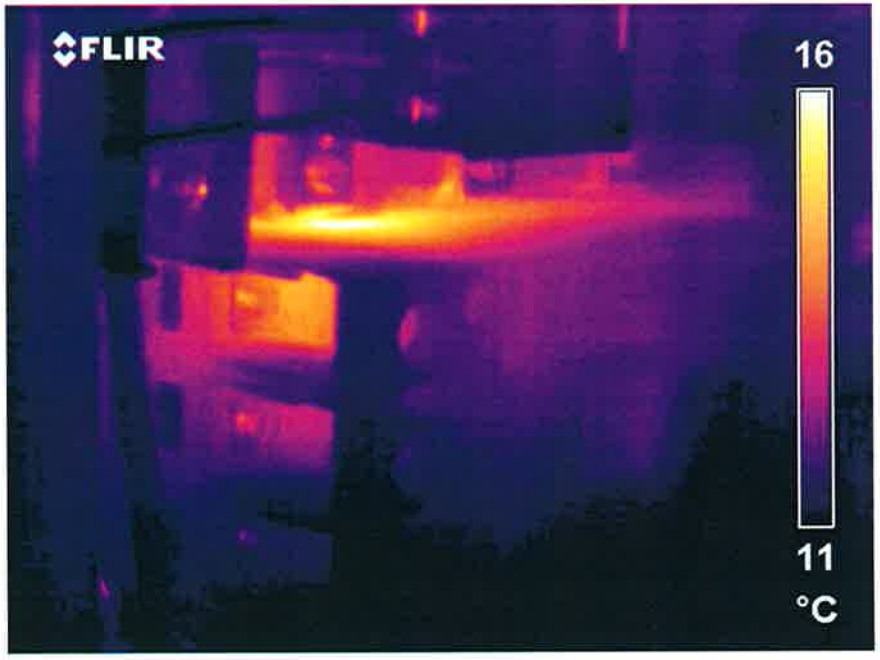
Comments Bus Connection Temperatures:

Left	Middle	Right
15°C	13°C	12°C

Priority 3

Repair Check Date **° Rise Over**

Notes



Area/Picture No. 4 **Job No.** 13-0000.00 **Date** 1/3/13

Location Middle School, Electrical Panel Room

Equipment ATS, ATS-2

Wind Speed N/A **Wind From** N/A **Sky** Indoor

Emiss. 1.00 **B/G** N/A° **Distance** 5' **Lens** 1x

Rated Load N/A **Measured Load** N/A **% Load**

Ambient Temp 17°C 8 ° **Rise Over** Left CT

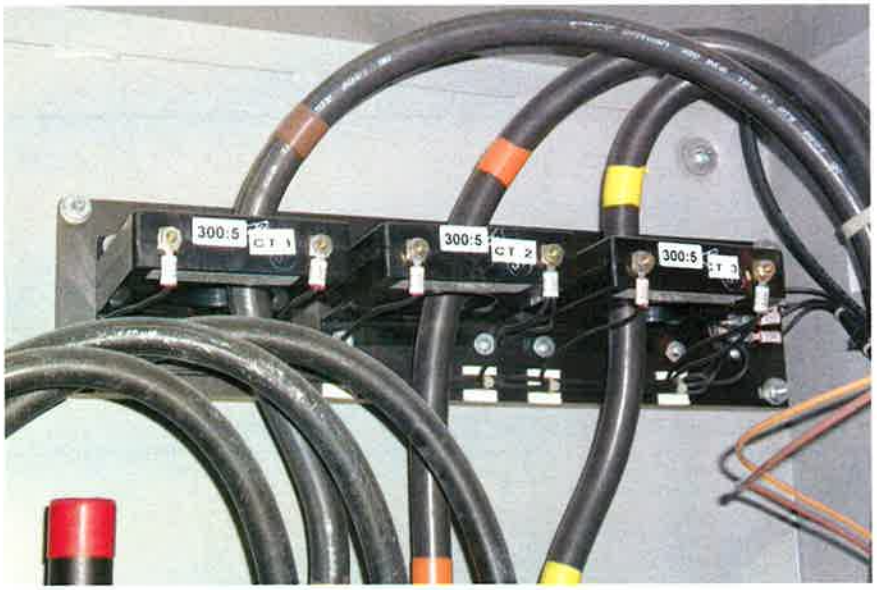
Comments CT Temperatures:

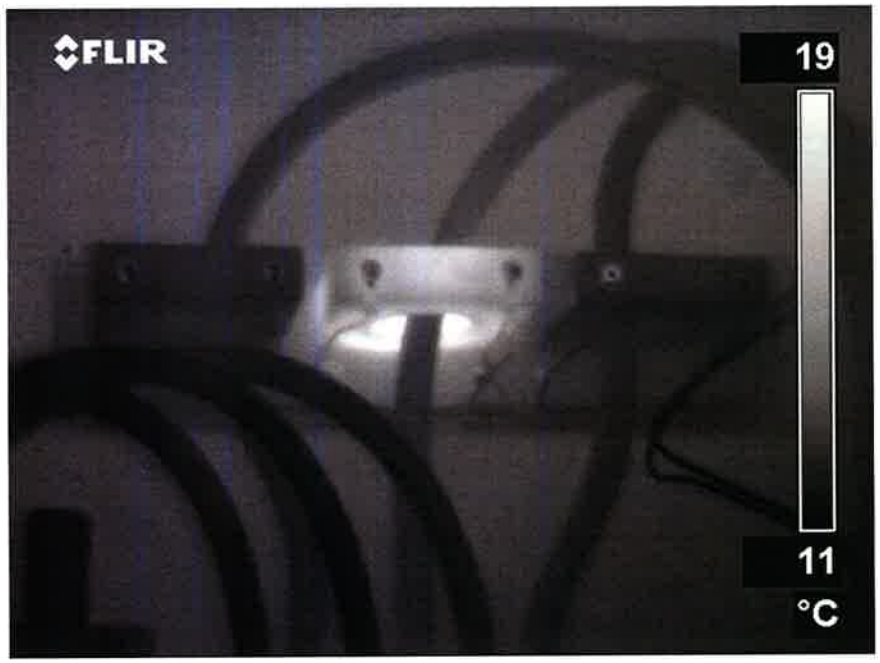
CT-1	CT-2	CT-3
12°C	20°C	12°C

Priority 2

Repair Check Date **° Rise Over**

Notes





Area/Picture No. 5 **Job No.** 13-0000.00 **Date** 1/3/13

Location Middle School, 1st Floor, Electrical Closet A-1TS-1

Equipment Distribution Panel, DP4, Circuit Breakers 1, 3, 5

Wind Speed N/A **Wind From** N/A **Sky** Indoor

Emiss. 1.00 **B/G** N/A° **Distance** 5' **Lens** 1x

Rated Load N/A **Measured Load** N/A **% Load**

Ambient Temp 20°C 6 ° **Rise Over** Upper Connection

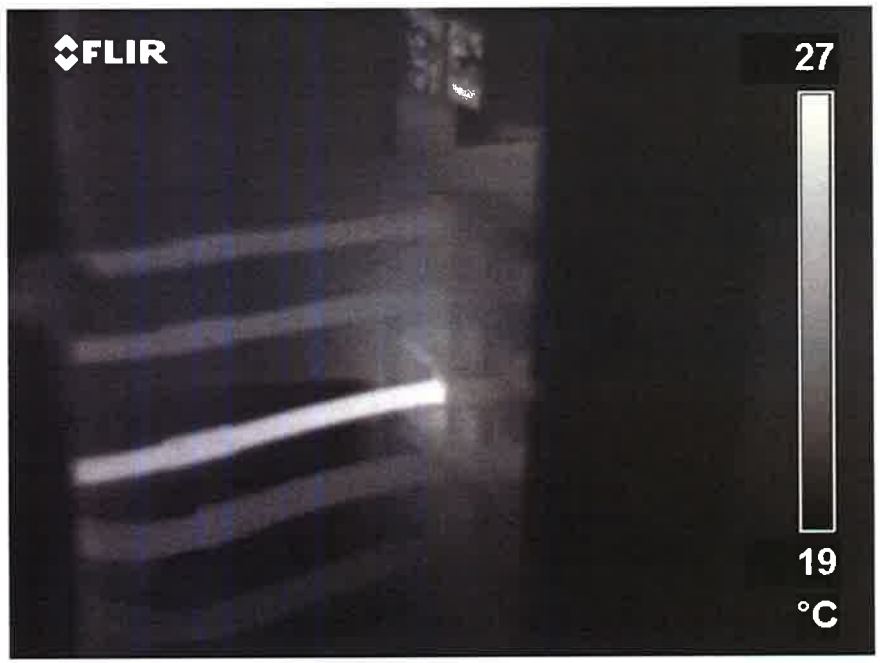
Comments Conductor Connection Temperatures:

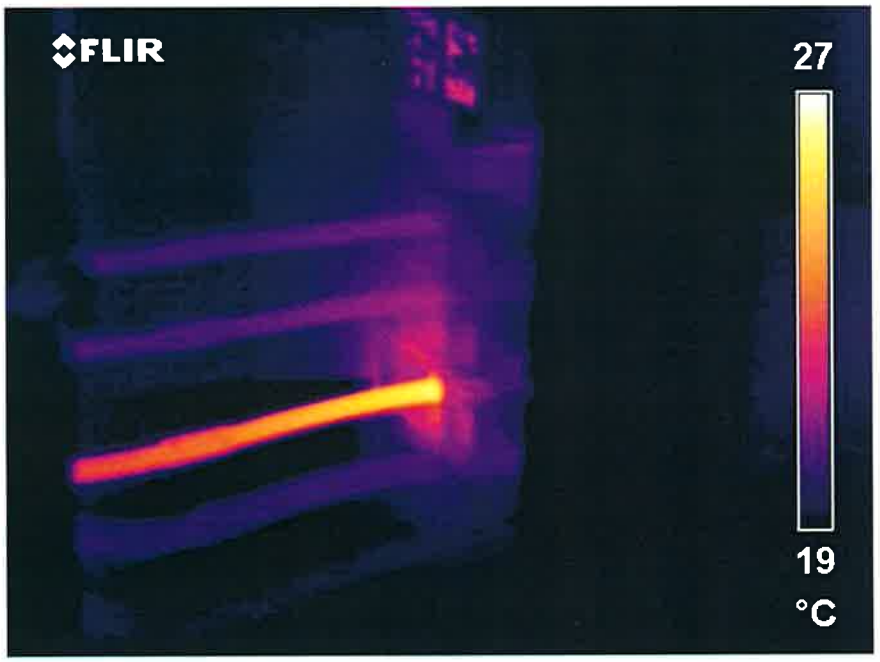
		Amps
Circuit 1	21°C	14.3
Circuit 3	22°C	10.2
Circuit 5	27°C	12.3

Priority 2

Repair Check Date **° Rise Over**

Notes





Area/Picture No. 6 **Job No.** 13-0000.00 **Date** 1/4/13

Location #3 Elementary School, Switchgear Room

Equipment Switchgear, Section 4, XFMR

Wind Speed N/A **Wind From** N/A **Sky** Indoor

Emiss. 1.00 **B/G** N/A° **Distance** 5' **Lens** 1x

Rated Load N/A **Measured Load** N/A **% Load**

Ambient Temp 13°C 16 ° **Rise Over** Left Winding

Comments Winding Temperatures:

Left	Middle	Right
40°C	56°C	45°C

Priority 1

Repair Check Date ° **Rise Over**

Notes

Area/Picture No. 7 **Job No.** 13-0000.00 **Date** 1/4/13

Location #3 Elementary School, Storage at Room 7

Equipment Distribution Panel, HVC, Circuit Breaker 3

Wind Speed N/A **Wind From** N/A **Sky** Indoor

Emiss. 1.00 **B/G** N/A° **Distance** 5' **Lens** 1x

Rated Load N/A **Measured Load** N/A **% Load**

Ambient Temp 20°C 14 **° Rise Over** Circuit Breaker 1

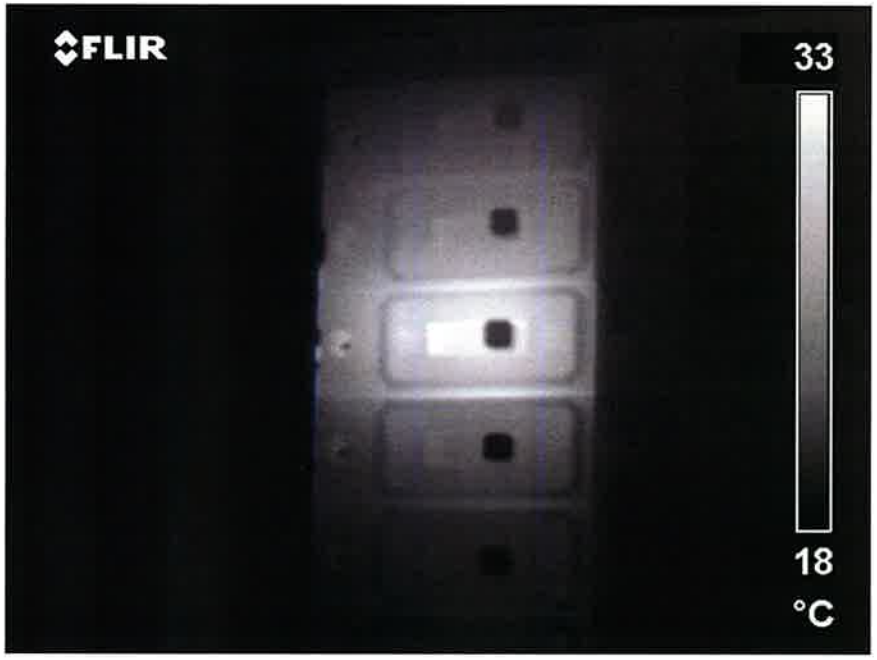
Comments Circuit Breaker Surface Temperatures:

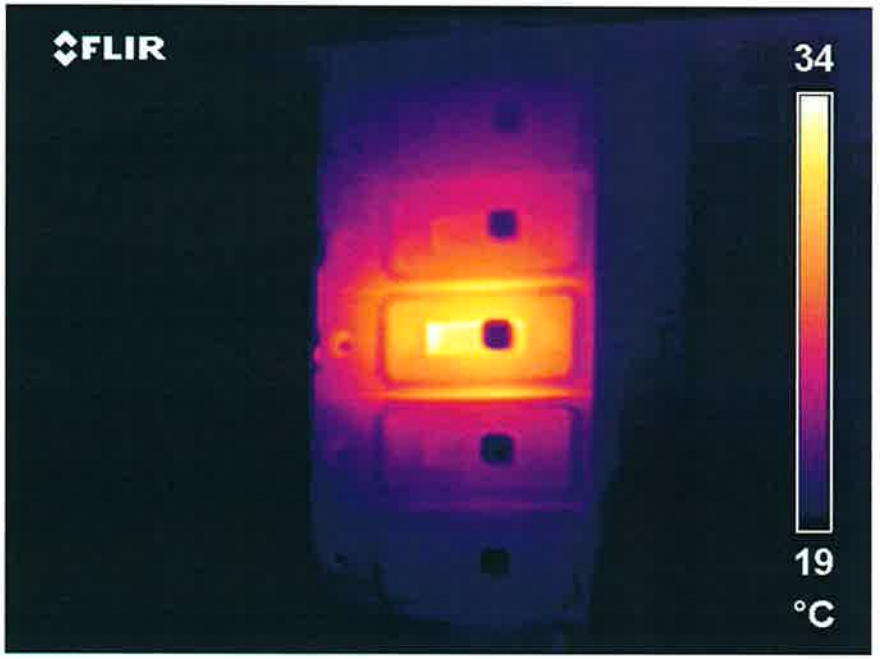
Circuit Breaker 1	20°C
Circuit Breaker 3	34°C
Circuit Breaker 5	20°C

Priority 2

Repair Check Date **° Rise Over**

Notes





Area/Picture No. 8 **Job No.** 13-0000.00 **Date** 1/4/13

Location #3 Elementary School, Storage at Room 36

Equipment Power Panel, PP2, Main Circuit Breaker

Wind Speed N/A **Wind From** N/A **Sky** Indoor

Emiss. 1.00 **B/G** N/A° **Distance** 5' **Lens** 1x

Rated Load 60 Amps **Measured Load** 29 Amps **% Load** 48.33

Ambient Temp 20°C 5 **° Rise Over** Lower Connection

Comments Conductor Connection Temperatures:

		Amps
Upper	22°C	29
Middle	18°C	5.5
Lower	17°C	7.4

Priority 2

Repair Check Date **° Rise Over**

Notes