

Report date:

3/28/16

# **Foreword**

This Report of Infrared Inspection provides complete documentation of thermal patterns detected in your equipment, structure or system. It uses a subjective evaluation to help you prioritize repairs to provide the greatest return from this inspection and your maintenance. This Report of Infrared Inspection meets the documentation requirements of the Infraspection Institute Standard for Infrared Inspection of Electrical Systems and Rotating Equipment, as well as standards, practices and specifications published by NFPA and NETA.

# **How Infrared Thermography Works**

Infrared imagers "see" the heat radiated from your equipment in real time, just like a video camera sees visible light. When thermograms are in color, colors in the scene are matched to the reference bar. Colors appearing closer to the top of the reference bar indicate higher temperatures. Colors appearing closer to the bottom of the reference bar indicate lower temperatures.

Infrared thermography falls within a group of diagnostic tools classified as nondestructive testing. That is - it neither damages nor alters that material or component which it is evaluating. The fundamental advantage of IR inspection is it's ability to identify previously unavailable operating information pertaining to critical component and equipment my measuring the temperature surface temperature. Some of the components which can benefit from an Infrared inspection are high voltage electrical equipment, switches, conductors and connections, or mechanical rotating body or piece of equipment which exists in an inaccessible location. Because IR operates from a safe distance and without any physical contact, it is possible to survey any physical condition having a thermal differential and not interfere in the operation of the subject equipment.

# **Repair Priority Ratings**

Each thermogram is given a Subjective Repair Priority Rating which is based upon your qualified assistant's opinion of how critical the subject item is to the safe and profitable operation of your overall system.

The Inspection Summary section of this report explains how to use this Subjective Repair Priority Rating to help you determine how quickly you need to investigate and correct the potential problem.

Overheating can cause premature deterioration and costly, unplanned failure of your equipment. Overheating connectors, conductors and components will never get better. In fact, the temperature and rate of deterioration will increase with time.

No one can predict when a failure will occur. As a result, we suggest that you use the Subjective Repair Priority Ratings as a guide but that you investigate and take appropriate corrective measures as soon as possible.

# **Report Summary**

Inspection date: 3/27/16 3/28/16 Report Date: Type of Inspection: Purpose of Inspection: **PPM** End User: **Project Location:** New York, NY 10013 Thermographer: **Certification Number:** Certification Level: Qualified Assistant(s): FLIR P640 S/N 4040004 **Equipment Used:** Day: Sunny Weather Data: Night: Mostly Cloudy **5**5F 44F Highs: lows: **Last Precipitation** Date: 3/21/16 # of Items Inspected 97 # of Thermograms 20

Comments:

We base our opinions and forgone conclusions to a reasonable degree of scientific (Thermographic) certainty. All items on the inventory list were surveyed using infrared. Only items with an infrared exception (problem) are contained in this report. No one can predict when a failure will occur. As a result, we recommend investigating and repairing all problem areas regardless of priority number. All equipment and components in which we are requested to scan, but do not have a clear line-of-site visibility will be noted as "Limited Visibility", or "Not Inspected" in this final report.

Load appeared to be lighting in the building. In switchgear section #7 all the screws on the "B" phase switches (items 17-20) looked burnt. Something systematic must have happened to this section of gear.

## **Disclaimers**

Non-destructive testing conducted by Al-Lectric Electrical Contracting is no substitute for adequate customer resources, time, and formal program processes, and even when delivered by trained and experienced inspection professionals with the support of management dedicated to customer satisfaction, Infrared Imaging Services LLC will never completely identify all defects, avoid all problems, or stop obsolescence.

All testing conducted by Al-Lectric Electrical Contracting is conducted using the test equipment noted in your quote and/or final report. Inspection procedures were performed to the best of our ability. All data and inspection results presented in your report document the equipment's characteristics which were analyzed and/or calculated at that specific point in time. All inspection data and results presented are only a partial representation of the total system which was inspected. **THE RESULTS SHOULD NOT BE CONSIDERED A TRUE REPRESENTATION OF THE COMPLETE SYSTEM.** 

Electrical and mechanical equipment are always dynamic in nature – always changing due to requested conditions of the facilities operational demands as well as outside sources such as utilities and environment. These varied demands and/or outside source disturbances/anomalies play a significant role in the reliability of the electrical and/or mechanical infrastructure in the operation of a facility. As reliable and complex as today's power and/or mechanical systems have become, no system can operate 100% indefinitely. Every system component, no matter how well designed will eventually achieve a failure rate of 100%.

Predictive testing is not 'crystal ball maintenance,' and under the current state of the art, it is unreliable and ineffective as an advance indicator of all electrical/mechanical fatigue failures. Non-destructive/predictive testing will not do away with the need for regular preventive maintenance and direct inspection. By itself, without a core commitment to addressing anomalies, defects and chronic difficulties regardless of reported priority levels, predictive testing cannot reduce equipment failure, reduce personnel or produce a major decrease in lifetime maintenance costs.

The "Inventory list" in this report should not be considered a complete list of all your electrical and/ or mechanical equipment within your facility - it is only an inventory list of equipment which was brought to our attention by the Qualified Assistant supplied by your facility to escort the Infrared Technician throughout your facility. Also, data and test results presented in this report document the equipment's characteristics at that specific point in time.

THE SERVICES PERFORMED, AND THIS REPORT DO NOT CONSTITUTE A WARRANTY, AN INSURANCE POLICY, OR A GUARANTEE OF ANY KIND; NOR DO THEY SUBSTITUTUE FOR ANY DISCLOSURE STATEMENT AS MAY BE REQUIRED BY LAW. THERE ARE NO WARRANTIES MADE. YOU AGREE NOT TO HOLD US REPONSIBLE FOR FUTURE FAILURE AND REPAIR, OR FOR THE NON-DISCOVERY OF ANY PATENT OR LATENT DEFECTS IN MATERIAL, WORKMANSHIP, OR OTHER CONDITIONS OF THE PROPERTY WHICH MAY OCCUR OR BECOME EVIDENT AFTER THE DATE THE SERVICES WERE PERFORMED; YOU AGREE TO ASSUME ALL THE RISKS FOR CONDITIONS WHICH ARE CONCEALED FROM VIEW OR INACCESSIBLE TO US AT THE TIME THAT THE SERVICES WERE PERFORMED

# **Inspection Summary**

For the equipment inspected, we have recorded a total of 20 thermogram(s) or daylight photograph(s) documenting conditions found during our inspection. These thermograms and/or photographs appear on the Image Pages found at the end of this report.

As a reference, each Image Page contains Evaluation Priority Ratings. Subjective Evaluation Ratings are based upon the Qualified Assistant's opinion of the subject item's importance to the safe and continuous operation of the facility. Objective Evaluation Ratings found on Electro/Mechanical Image Pages are based upon temperature rise criteria as specified by NFPA, NETA and the Infraspection Institute Standard for Infrared Inspection of Electrical Systems and Rotating Equipment.

Depending upon Image Page format, Subjective and/or Objective Priority Ratings may be found. When both are listed, an Average Repair Priority Rating will also be displayed. This Average Repair Priority Rating is the mean value of the Subjective and Objective Priorities. When appropriate, the Average Repair Priority is rounded up to the next highest whole number.

Potential problems documented in this report are grouped and listed according to the following Average Repair Priority or Subjective Evaluation Ratings.

The following Delta T (temperature difference) is reported as the temperature rise of the exception above a defined reference, which is typically ambient air or a similar component under the same conditions or the maximum allowable temperature rise of the component, Tmax.

	NETA	Experience
Basis of Objective Priority (X):	X	

# Quantity

- 2 **Priority 1**: Major discrepancy; repair immediately
- 1 **Priority 2**: Monitor until corrective measures can be accomplished, fix ASAP
- 7 **Priority 3**: Indicated probable deficiency; repair as time permits
- 10 **Priority 4**: Possible deficiency; warrants investigation

#### **Sequence Number** Location 1 Equipment Main Electric Room Switchgear - 400A Fused DS 1 9th Floor Main Electric Room Switchgear - 400A Fused DS 8th Floor 2

3

20

21

22

23

24

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35

**Boiler Room** 

4	Main Electric Room	Switchgear - 400A Fused DS	6th Floor	Υ	Р
5	Main Electric Room	Switchgear - 400A Fused DS	5th Floor	Υ	Р
6	Main Electric Room	Switchgear - 400A Fused DS	4th Floor	Υ	P
7	Main Electric Room	Switchgear - 400A Fused DS	3rd Floor	Υ	Р
8	Main Electric Room	Switchgear - 400A Fused DS	2nd Floor	Υ	Р
9	Main Electric Room	Switchgear - 600A Fused DS	3,9,17 Floor	Υ	F
10	Main Electric Room	Switchgear - 600A Fused DS	7th Floor	Υ	Р
11	Main Electric Room	Switchgear - 600A Fused DS	8,9, 10 Floor	Y	P
12	Main Electric Room	Switchgear - 4000A Fused DS	DP 2A & 2B	Υ	P
755	10.02 0 02 000 00	S S W W STANDARD WITH	Interest Control	The Control of Control	

Main Electric Room | Switchgear - 400A Fused DS

Main Electric Room Switchgear - 400A Fused DS

Main Electric Room Switchgear Busswork Rear

Main Electric Room Switchgear Fuse Board

Main Electric Room 60A Fused Disconnect Switch

Main Electric Room 400A Fused Disconnect Switch

60A Disconnect Switch

Main Electric Room | Switchgear - 2000A Fused DS

**Equipment Inventory list** 

Equip#

7th Floor

17th Floor

Section 1

Section 2

Section 3

Section 4

Section 5

Section 6

Section 7

SWBD #1

SWBD #1

SWBD #1

SWBD #2

MPNL-1A

Tamarind

Pump 1

SW #2

In Service

Υ

Υ

Limited visibility

Y

Υ

Υ

Υ

N

Υ

Y

Visual

P

P

P

P

Р

P

P

Р

P

F

F

P

P

Р

P

P

P

4

3

3

3

4

4

**Avg Priority** 

11	Wall Electric ROOM Switchgear - 600A Fused DS	8,9, 10 FIOOI		P
12	Main Electric Room Switchgear - 4000A Fused DS	DP 2A & 2B	Υ	P
13	Main Electric Room Switchgear - 4000A Fused DS	SW #1	Limited visibility	Р
14	Main Electric Room Switchgear - 400A Fused DS	10th Floor	Υ	P
15	Main Electric Room Switchgear - 400A Fused DS	11th Floor	Υ	P
2.5	NA 1 FL A1 D	22 3 43		427

13	Main Electric Room	Switchgear - 4000A Fused DS	SW #1	Limited visibility		Р
14	Main Electric Room	Switchgear - 400A Fused DS	10th Floor	Υ		Р
15	Main Electric Room	Switchgear - 400A Fused DS	11th Floor	Υ		Р
16	Main Electric Room	Switchgear - 400A Fused DS	12th Floor	Υ		Р
17	Main Electric Room	Switchgear - 400A Fused DS	14th Floor	Υ	4	F

	man Electric flooring antengent flooring asset so	2011111001	1.6	-1	
15	Main Electric Room Switchgear - 400A Fused DS	11th Floor	Y		Р
16	Main Electric Room Switchgear - 400A Fused DS	12th Floor	Y		Р
17	Main Electric Room Switchgear - 400A Fused DS	14th Floor	Y	4	F
18	Main Electric Room Switchgear - 400A Fused DS	16th Floor	Υ	4	F
19	Main Electric Room Switchgear - 400A Fused DS	15th Floor	Y	4	F

15	Main Electric Room Switchgear - 400A Fused DS	11th Floor	Υ		Р
16	Main Electric Room Switchgear - 400A Fused DS	12th Floor	Y		Р
17	Main Electric Room Switchgear - 400A Fused DS	14th Floor	Y	4	F
18	Main Electric Room Switchgear - 400A Fused DS	16th Floor	Υ	4	F
	84 - Fl   1 - F				_

36	Boiler room	60A Disconnect Switch	Pump 2	Υ	4	Р
37	Elevator Room #2	200A Fused Disconnect Switch	Car 3	Υ	3	F
38	Elevator Room #2	200A Fused Disconnect Switch	Car 4	Y		Р
39	Elevator Room #2	Control Cabinet	Car 3	Υ		P
40	Elevator Room #2	Control Cabinet	Car 4	Υ		Р
41	Elevator Room #1	100A Fused Disconnect Switch	Car #1	Υ		Р
42	Elevator Room #1	100A Fused Disconnect Switch	Car #2	Y		Р
43	Elevator Room #1	Control Cabinet	Car #1	Υ	1	Р
44	Elevator Room #1	Control Cabinet	Car #2	Υ		Р
45	17th Floor Electric Closet	Circuit Breaker Panel	PP-17-A	Υ		Р
46	17th Floor Electric Closet	Circuit Breaker Panel	RP-17-B	Υ		Р
47	16th Floor Electric Closet	Circuit Breaker Panel	PP-16-A	Υ		Р
48	16th Floor Electric Closet	Circuit Breaker Panel	RP-16-B	Υ		Р
49	15th Floor Electric Closet	Circuit Breaker Panel	PP-15-A	Υ		Р
50	15th Floor Electric Closet	Circuit Breaker Panel	RP-15-A	Υ		Р
51	15th Floor Electric Closet	200A Fused Disconnect Switch	MAIN	Υ	3	F
52	14 Floor Electrical Closet	Circuit Breaker Panel	Panel #1	Υ		Р
53	14 Floor Electrical Closet	Circuit Breaker Panel	Panel #2	Υ		Р
54	14 Floor Electrical Closet	CT Cabinet		Υ		Р
55	14 Floor Electrical Closet	200A Fused Disconnect Switch	Panel #3	Υ	4	F
56	12th Floor Electrical Closet	CT Cabinet		Υ		Р
57	12th Floor Electrical Closet	200A Fused Disconnect Switch	AC1	Υ	3	P
58	12th Floor Electrical Closet	Circuit Breaker Panel	Panel A	Y		Р
59	12th Floor Electrical Closet	Circuit Breaker Panel	Panel B	Υ		P
60	12th Floor Electrical Closet	Circuit Breaker Panel	Panel C	Y		Р
61	12th Floor Electrical Closet	100A Fused Disconnect Switch	AC 2	Υ		Р
62	11th Floor Electrical Closet	CT Cabinet		Υ		Р
63	11th Floor Electrical Closet	400A Fused Disconnect Switch		Υ		P
64	11th Floor Electrical Closet	Circuit Breaker Panel	Panel A	Y		P
65	11th Floor Electrical Closet	Circuit Breaker Panel	Panel B	Υ		Р
66	10th Floor Electrical Closet	CT Cabinet		Υ		Р
67	10th Floor Electrical Closet	400A Fused Disconnect Switch		Y		P
68	10th Floor Electrical Closet	Circuit Breaker Panel	LP10 A	Y		Р
69	10th Floor Electrical Closet	Circuit Breaker Panel	LP10 B	Υ		Р
70	9th Floor Electrical Closet	Circuit Breaker Panel	9A	Y		Р
71	9th Floor Electrical Closet	Circuit Breaker Panel	9B	Not insp Bad cover		Р
72	9th Floor Electrical Closet	400A Fused Disconnect Switch		Υ		Р

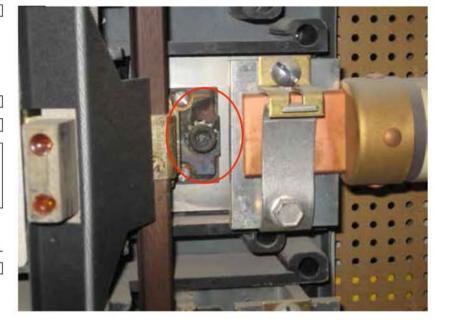
73	8th Floor Electrical Closet	Circuit Breaker Panel	LP 4A	Not insp Bad cover		Р
74	8th Floor Electrical Closet	Circuit Breaker Panel	LP 4	Not insp Bad cover		Р
75	8th Floor Electrical Closet	Circuit Breaker Panel	1	Y		Р
76	8th Floor Electrical Closet	200A Fused Disconnect Switch		Υ		Р
77	8th Floor Electrical Closet	100A Fused Disconnect Switch		Υ		Р
78	7th Floor Electrical Closet	400A Fused Disconnect Switch	AC 1&2	Υ		Р
79	7th Floor Electrical Closet	Circuit Breaker Panel	1	Υ		P
80	7th Floor Electrical Closet	Circuit Breaker Panel	2	Not insp Bad cover		Р
81	6th Floor Electrical Closet	CT Cabinet		Υ		P
82	6th Floor Electrical Closet	400A Fused Disconnect Switch		Υ		Р
83	7th Floor Electrical Closet	Circuit Breaker Panel	PP1	Υ	2	P
84	8th Floor Electrical Closet	Circuit Breaker Panel	PP2	Υ		Р
85	5th Floor Electrical Closet	400A Fused Disconnect Switch		Υ		P
86	5th Floor Electrical Closet	Circuit Breaker Panel	PL-1	Υ		Р
87	6th Floor Electrical Closet	Circuit Breaker Panel	PL-2	Υ	1	Р
88	4th Floor Electrical Closet	CT Cabinet		Υ	-	Р
89	4th Floor Electrical Closet	400A Fused Disconnect Switch		Υ		P
90	5th Floor Electrical Closet	Circuit Breaker Panel	Α	Υ	4	F
91	6th Floor Electrical Closet	Circuit Breaker Panel	В	Υ		Р
92	3rd Floor Electrical Closet	400A Fused Disconnect Switch		Υ		Р
93	3rd Floor Electrical Closet	Circuit Breaker Panel	A	Υ		Р
94	3rd Floor Electrical Closet	Circuit Breaker Panel	В	Υ		Р
95	2nd Floor Electrical Closet	CT Cabinet		Υ		P
96	2nd Floor Electrical Closet	Circuit Breaker Panel	А	Υ	3	F
97	2nd Floor Electrical Closet	Circuit Breaker Panel	В	Y		Р

		Image summary		
Picture #	Location	Equipment #	<b>Equipment Description</b>	Priority
17	Main Electric Room	14th Floor	Switchgear - 400A Fused DS	4
18	Main Electric Room	16th Floor	Switchgear - 400A Fused DS	4
19	Main Electric Room	15th Floor	Switchgear - 400A Fused DS	4
20	Main Electric Room	17th Floor	Switchgear - 400A Fused DS	4
27	Main Electric Room	Section 7	Switchgear Busswork Rear	4
28	Main Electric Room	SW #2	Switchgear - 2000A Fused DS	3
29	Main Electric Room	SWBD #1	Switchgear Fuse Board	3
30	Main Electric Room	SWBD #1	Switchgear Fuse Board	3
31	Main Electric Room	SWBD #1	Switchgear Fuse Board	4
35	Boiler Room	Pump 1	60A Disconnect Switch	4
36	Boiler room	Pump 2	60A Disconnect Switch	4
37	Elevator Room #2	Car 3	200A Fused Disconnect Switch	3
43	Elevator Room #1	Car #1	Control Cabinet	1
51	15th Floor Electric Closet	MAIN	200A Fused Disconnect Switch	3
55	14 Floor Electrical Closet	Panel #3	200A Fused Disconnect Switch	4
57	12th Floor Electrical Closet	AC1	200A Fused Disconnect Switch	3
83	7th Floor Electrical Closet	PP1	Circuit Breaker Panel	2
87	6th Floor Electrical Closet	PL-2	Circuit Breaker Panel	1
90	5th Floor Electrical Closet	A	Circuit Breaker Panel	4
96	2nd Floor Electrical Closet	A	Circuit Breaker Panel	3

No.	17	Job Number		Equip#	14th Floor
Location [		Main Electric Roc	em	Wind Speed	Indoor
Equipment [		Switchgear - 400A Fu	sed DS	From [	
Lens [	1X	Filter [	None		
Rated Load (Amps)			Meas. (Amps)		% load
		Degree Rise (C°)		Rise Over	Ambient
Amps "A"= Amps "B"= Amps "C"=	1000	" phase screw appeared to vitchgear equipment, not ho		Service and the service of the servi	screws in this section o
Obj Priority NETA Obj Pr. Ex-Based	3	Subj. Priority Subj. Priority	4	Avg Priority Avg Priority	4

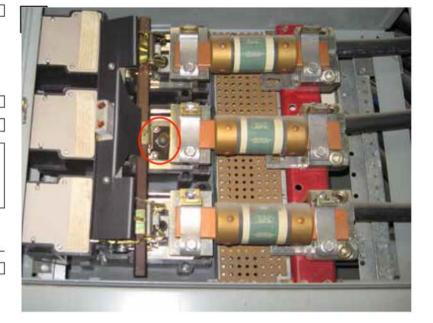




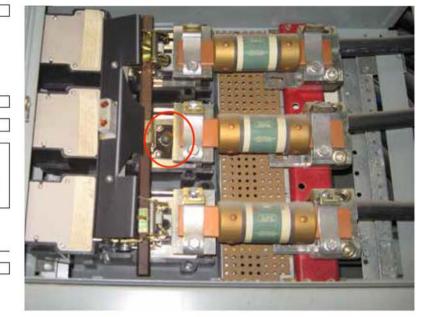


No.	18	Job Number		Equip#	16th Floor
Location		Main Electric Roc	om	Wind Speed	Indoor
Equipment		Switchgear - 400A Fu	sed DS	From [	
Lens	1X	Filter [	None		
Rated Load (Amps)			Meas. (Amps)		% load
		Degree Rise (C°)		Rise Over	Ambient
Amps "A"= Amps "B"= Amps "C"=	5.541	s" phase screw appeared to vitchgear equipment, not ho			screws in this section
Obj Priority NETA Obj Pr. Ex-Based		Subj. Priority Subj. Priority	4	Avg Priority Avg Priority	4

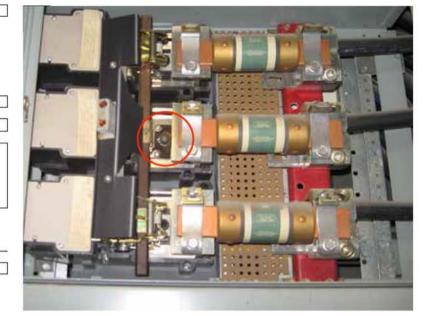
Possible deficiency; warrants investigation



Location Equipment	Main Electric Roo	om	Wind Speed	Indoor
_				
NS S	Switchgear - 400A Fu	ised DS	From	
Lens	1X Filter	None		
Rated Load (Amps)		Meas. (Amps)		% load
	Degree Rise (C°)		Rise Over	Ambient
Amps "A"= Amps "B"= Amps "C"=	"B" phase screw appeared to Switchgear equipment, not ho			screws in this section
Obj Priority NETA Obj Pr. Ex-Based	Subj. Priority Subj. Priority	4	Avg Priority Avg Priority	4
			Rise Over	



No.	20	Job Number [		Equip#	17th Floor	7
Location		Main Electric Roo	em	Wind Speed [	Indoor	
Equipment		Switchgear - 400A Fu	sed DS	From [		
Lens	1X	Filter [	None			
Rated Load (Amps)			Meas. (Amps)		% load	
		Degree Rise (C°)		Rise Over		
Amps "A"= Amps "B"= Amps "C"=	5.541.0	" phase screw appeared to o vitchgear equipment, not ho			screws in this sect	ion of
Obj Priority NETA Obj Pr. Ex-Based		Subj. Priority Subj. Priority	4	Avg Priority Avg Priority	4	
Repair Chk Date				Rise Over		
OPPECTIVE ACTION						



No.	27	Job Number		Equip#	Section 7
Location		Main Electric Roo	om	Wind Speed	
Equipment		Switchgear Busswork	k Rear	From	
Lens	1X	Filter [	None		
Rated Load (Amps)			Meas. (Amps)		% load
		Degree Rise (C°)		Rise Over	
Amps "A"=  Amps "B"=  Amps "C"=	5.55	ist and corrosion on buss wo	ork and bolts, rust on top	of cabinet, did wate	er once drip down onto t
Obj Priority NETA Obj Pr. Ex-Based		Subj. Priority Subj. Priority	4	Avg Priority Avg Priority	4
Repair Chk Date				Rise Over	



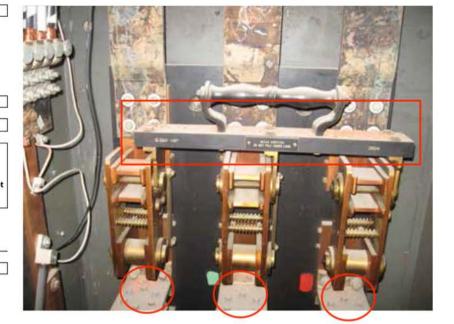


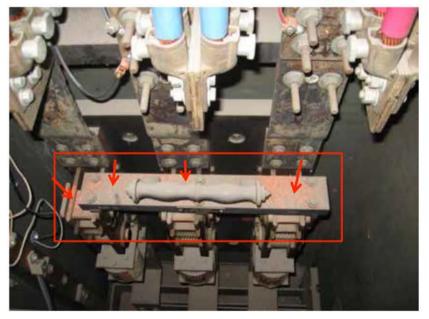


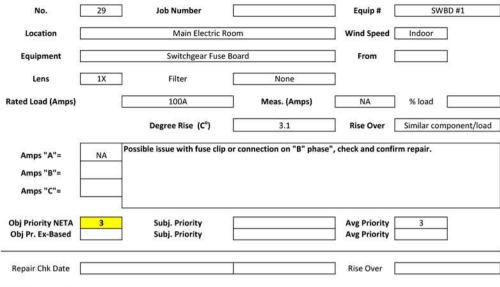
No.	28	Job Number		Equip#	SW #2
Location		Main Electric Roo	om	Wind Speed	Indoor
Equipment		Switchgear - 2000A Fu	used DS	From [	
Lens	1X	Filter	None		
Rated Load (Amps)			Meas. (Amps)		% load
		Degree Rise (C°)		Rise Over	
Amps "A"= Amps "B"= Amps "C"=		Copper shavings on switch, th operating switch until shaving		sh when opening th	ne switch. Recommend no
Obj Priority NETA Obj Pr. Ex-Based	3	Subj. Priority Subj. Priority	3	Avg Priority Avg Priority	3
Repair Chk Date				Rise Over	



Indicates probable deficiency; repair as time permits



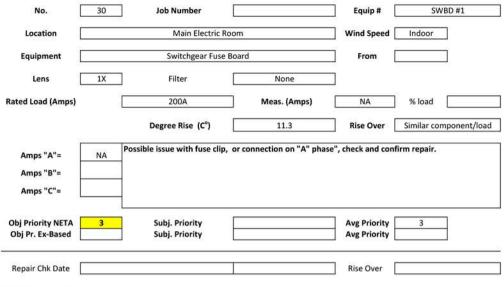




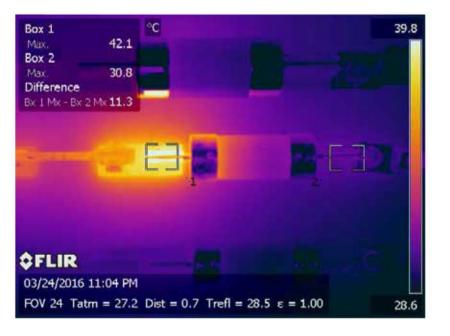
Indicates probable deficiency; repair as time permits



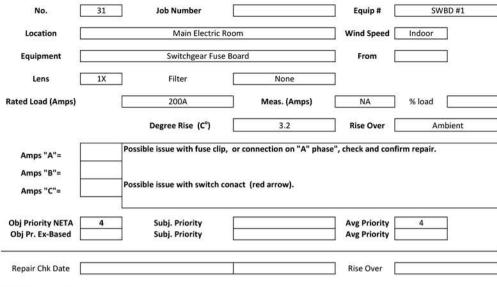




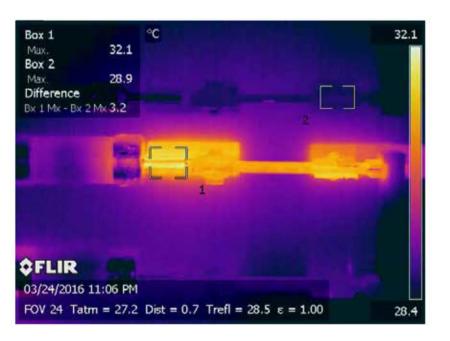
Indicates probable deficiency; repair as time permits



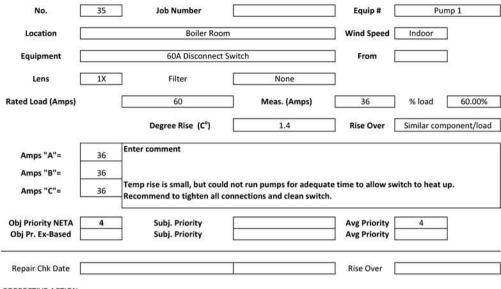




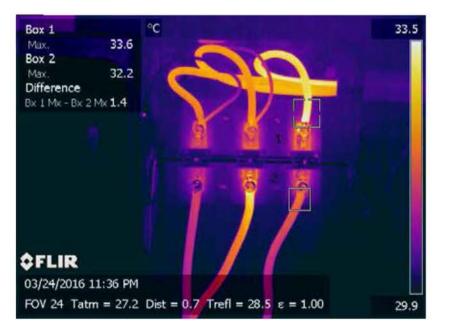
Possible deficiency; warrants investigation



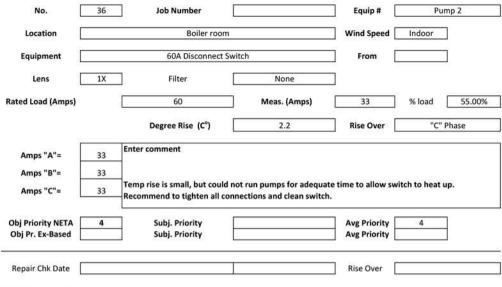




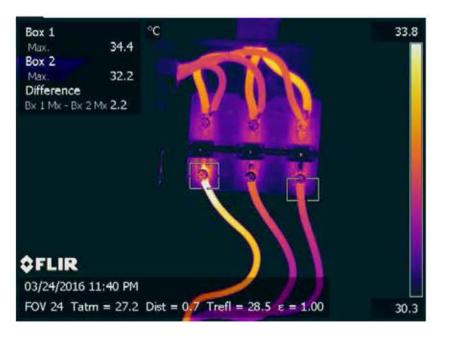








Possible deficiency; warrants investigation

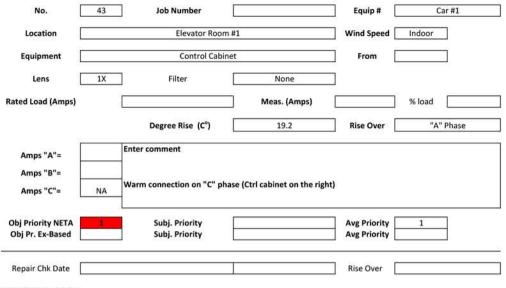




No.	37	Job Number		Equip#	Car 3	ž.
Location [		Elevator Room	‡2	Wind Speed [	Indoor	
Equipment [		200A Fused Disconnec	t Switch	From [		
Lens [	1X	Filter	None			
Rated Load (Amps)			Meas. (Amps)		% load	
		Degree Rise (C°)		Rise Over		
Amps "A"=	150	Enter comment				
Amps "B"=	150					
Amps "C"=	200	Mismatched fuse on "C". "A" recommend correct fuse and o		ould be 150A, is 20	OA. "C" also look	ed burn
Obj Priority NETA		Subj. Priority	3	Avg Priority	3	
Obj Pr. Ex-Based		Subj. Priority		Avg Priority		
Repair Chk Date				Rise Over		

Indicates probable deficiency; repair as time permits

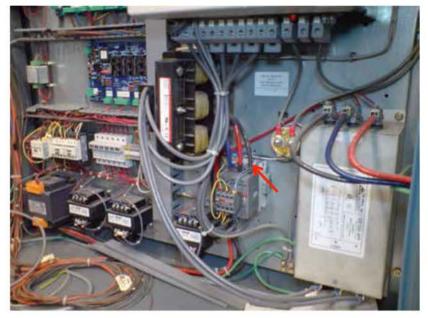






Major discrepancy; repair immediately





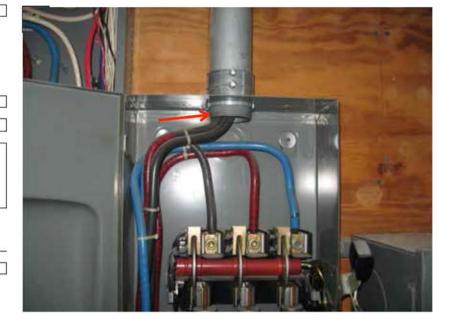
No.	51	Job Number [		Equip#	MAIN
Location		15th Floor Electric C	loset	Wind Speed	Indoor
Equipment		200A Fused Disconnect	t Switch	From [	
Lens	1X	Filter [	None		
Rated Load (Amps)			Meas. (Amps)		% load
		Degree Rise (C°)		Rise Over	
Amps "A"= Amps "B"= Amps "C"=		Enter comment  Missing ground. "B" phase wir been overheated. Not hot at ti	선생님이 되었다. 아이들이 아이들이 되었다면 하면 없는데 없다.		AND STATE OF THE PARTY OF THE P
Obj Priority NETA Obj Pr. Ex-Based		Subj. Priority Subj. Priority	3	Avg Priority Avg Priority	3
Repair Chk Date				Rise Over	
CORRECTIVE ACTION					

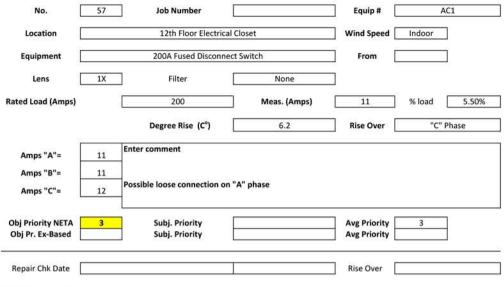
Indicates probable deficiency; repair as time permits



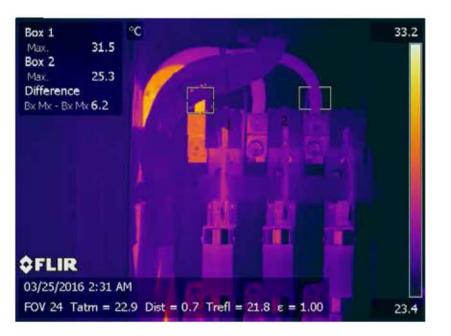


No.	55	Job Number		Equip#	Panel #3
Location		14 Floor Electrical (	Closet	Wind Speed	Indoor
Equipment		200A Fused Disconnec	ct Switch	From	
Lens	1X	Filter	None		
ated Load (Amps)	[		Meas. (Amps)		% load
		Degree Rise (C°)		Rise Over	
Amps "A"=		Enter comment			
Amps "A"= Amps "B"=					
20 3		Enter comment No Bushing, Electrician says t	his is a safety violation		
Amps "B"= Amps "C"=			his is a safety violation	Avg Priority	4
Amps "B"=		No Bushing, Electrician says t	*************************************	Avg Priority Avg Priority	4





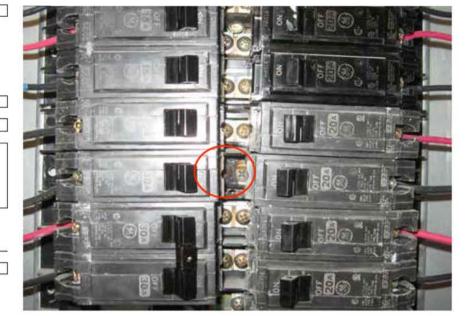
Indicates probable deficiency; repair as time permits

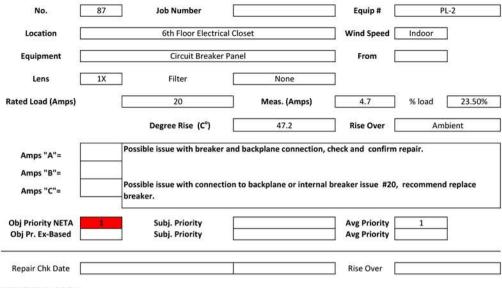




No.	83 Job Number		Equip#	PP1
Location	7th Floor Electrical	Closet	Wind Speed	Indoor
Equipment	Circuit Breaker P	anel	From [	
Lens	1X Filter	None		
Rated Load (Amps)	30	Meas. (Amps)		% load
	Degree Rise (C°)		Rise Over	
	Enter comment			
Amps "A"= Amps "B"= Amps "C"=	Burnt backplane screw on br	eaker #9, not hot at time o	f infrared inspectio	n, recommend replace
Amps "B"=	Burnt backplane screw on br	eaker #9, not hot at time o	f infrared inspectio	n, recommend replace

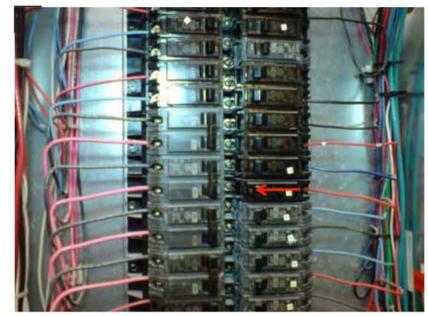
Monitor until corrective measures can be accomplished



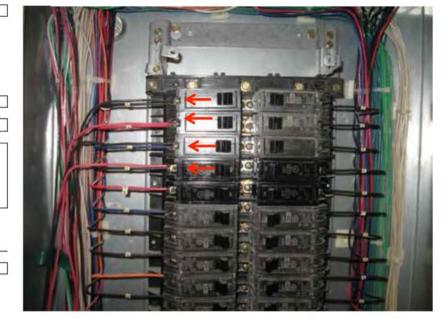


Major discrepancy; repair immediately





No.	90	Job Number		Equip#	A
Location		5th Floor Electrical	Closet	Wind Speed	Indoor
Equipment		Circuit Breaker P	anel	From [	
Lens	1X	Filter	None		
tated Load (Amps)			Meas. (Amps)		% load
		Degree Rise (C°)		Rise Over	
Amps "A"=		Enter comment			
Amps "A"= Amps "B"=					
		Enter comment  Two wires on one breaker - E	lectrician states this is a co	de violation	
Amps "B"= Amps "C"=	,		lectrician states this is a co	de violation	4
Amps "B"=		Two wires on one breaker - E		-	4



No.	96	Job Number		Equip#	А
Location		2nd Floor Electrical (	Closet	Wind Speed	Indoor
Equipment		Circuit Breaker Pa	nel	From [	
Lens	1X	Filter	None		
Rated Load (Amps)			Meas. (Amps)		% load
		Degree Rise (C°)		Rise Over	
Amps "A"= Amps "B"= Amps "C"=	Bu	ter comment rnt backplane screws on #1 eaker	5 and #17, not hot at tim	e of infrared inspec	tion, recommend replace
Obj Priority NETA Obj Pr. Ex-Based		Subj. Priority Subj. Priority	3	Avg Priority Avg Priority	3
Repair Chk Date				Rise Over	



Indicates probable deficiency; repair as time permits

