



**191 BOULEVARD
GLEN ROCK, NJ 07452
201-444-3620**

Thermographic Inspection at


SMALLVILLE DPW

123 ANY WAY SMALLVILLE, CA 01234

2006-04-25

By

PETER PLEIN

	Thermography Inspection at SMALLVILLE DPW	Date: 01-23-2006
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This is the in initial inspection for this location. Baseline amperage readings were not taken as per contract. Annual vacuuming of panels and transformers is recommended.

Inspection Site Information	
Customer	SMALLVILLE DPW
Address	123 ANY WAY SMALLVILLE, CA 01234
Contact person	TOM THUMB
Phone number	555-123-4567
E-mail address	TTHUMB@VERIZON.NET
Thermographer	PETER PLEIN

INFORMATION

Overview of Fault Ratings:

0: No abnormality	No action
1: Low grade fault	To be monitored – Plan new inspection
2: Medium grade fault	Repair at scheduled shut down
3: Severe fault	Repair ASAP
4: Critical fault	Repair immediately

	Thermography Inspection at SMALLVILLE DPW	Date: 01-23-2006
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Summary of Inspection				
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Location	Equipment	Fault	Diff	Page
MAIN ELECTRIC ROOM	FUSED DICONNECT LPA	4	85.9	4
1ST FLOOR ELECTRIC ROOM	PANELBOARD LP-2A	Repair	38.2	5
PARKING DECK ELECTRIC CLOSET	LIGHTING CONTACTOR	Repair	39.6	6
PARKING DECK ELECTRIC CLOSET	LIGHTING CONTACTOR	Repair	40.9	7
2ND FLOOR ELECTRIC ROOM	PANELBOARD RP-3B	Repair	12.9	8
PENTHOUSE	DISCONNECT SWITCH	Repair	67.8	9
PENTHOUSE	FUSED DISCONNECT SWITCH P-3	Repair	29.3	10



**Thermography Inspection
at
SMALLVILLE DPW**

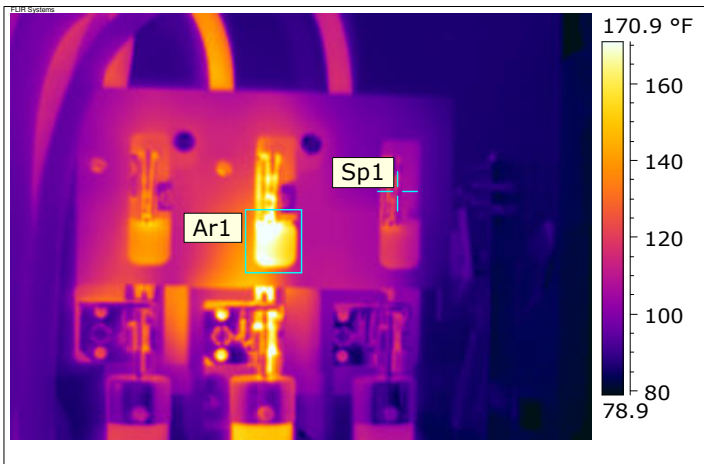
Date:
01-23-2006

Photo and Identification



IR Text Comment	Value
Location	MAIN ELECTRIC ROOM
Equipment	FUSED DICONNECT LPA
Type	GENERAL ELECTRIC
Nom load	100
Actual load	23
Fault	4
Recommendation	REPLACE

Thermogram 3/29/2006



Label	Value
Sp1	105.4 °F
Ar1: Max	191.3 °F
Temp rise (Ar1 - Sp1)	85.9 °F

Analysis & Recommended action:

B PHASE DISCONNECT SWITCH BLADE/BLADE PORT HAS A 85.9 DEGREE RISE

DUE TO THE LARGE DELTA T AND LOW LOAD IT IS RECOMMENDED THAT THIS SWITCH BE REPLACED.

A=22
B=23
C=23

Inspected by :

PETER PLEIN

Signature:.....

date: **01-23-2006**

Repaired by:

date:

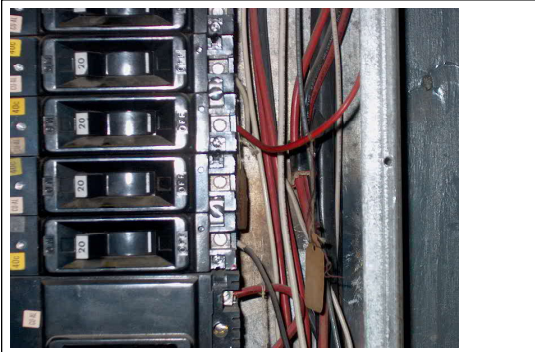
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Thermography Inspection
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SMALLVILLE DPW

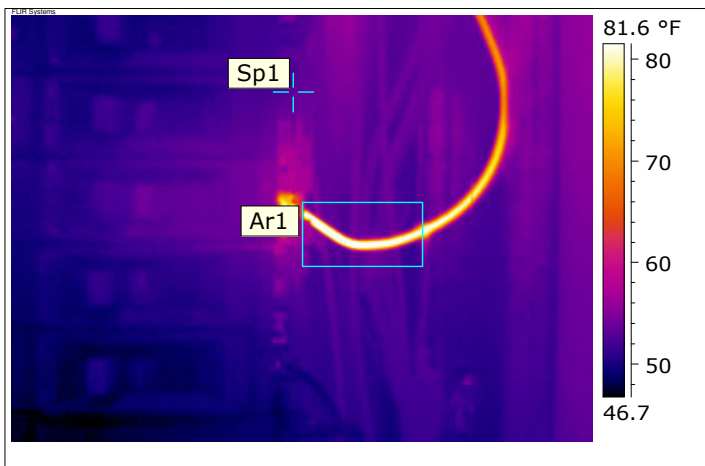
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01-23-2006

Photo and Identification



IR Text Comment	Value
Location	1ST FLOOR ELECTRIC ROOM
Equipment	PANELBOARD LP-2A
Nom load	20
Actual load	6.4
Fault	3
Recommendation	Repair

Thermogram 3/7/2006



Label	Value
Sp1	53.6 °F
Ar1: Max	91.8 °F
Temp rise (Ar1 - Sp1)	38.2 °F

Analysis & Recommended action:

HIGH RESISTANCE CONNECTION

CLEAN AND TIGHTEN ALL RELATED CONNECTIONS

Inspected by : PETER PLEIN

Signature:.....

date: 01-23-2006

Repaired by:

date:

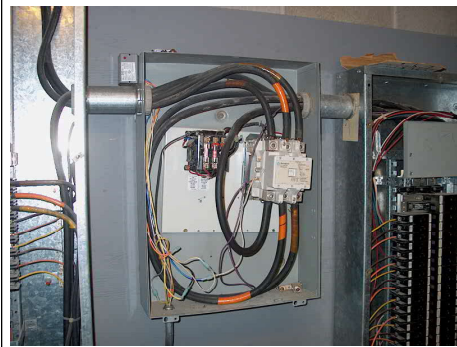
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Thermography Inspection
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SMALLVILLE DPW

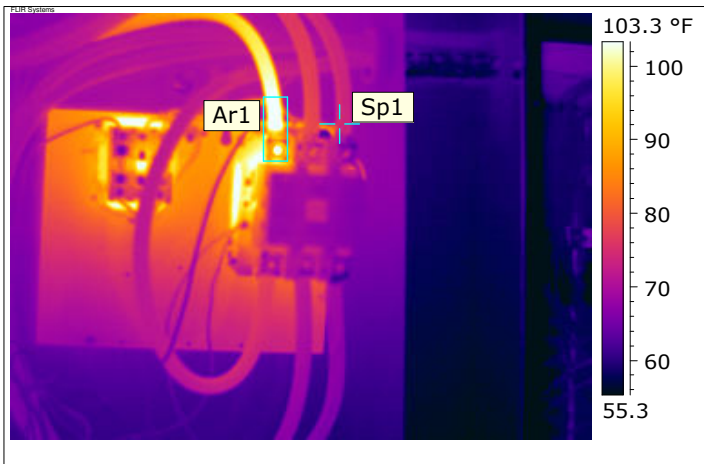
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01-23-2006

Photo and Identification



IR Text Comment	Value
Location	PARKING DECK ELECTRIC CLOSET
Equipment	LIGHTING CONTACTOR
Nom load	100
Actual load	37
Fault	3
Recommendation	Repair

Thermogram 3/14/2006



Label	Value
Sp1	74.6 °F
Ar1: Max	114.2 °F
Temp rise (Ar1 - Sp1)	39.6 °F

Analysis & Recommended action:

HIGH RESISTANCE CONNECTION

REMOVE LUG AND CLEAN AND TIGHTEN ALL RELATED CONNECTIONS

A=37
B=41
C=34

Inspected by : PETER PLEIN

Signature:.....

date: 01-23-2006

Repaired by:

date:

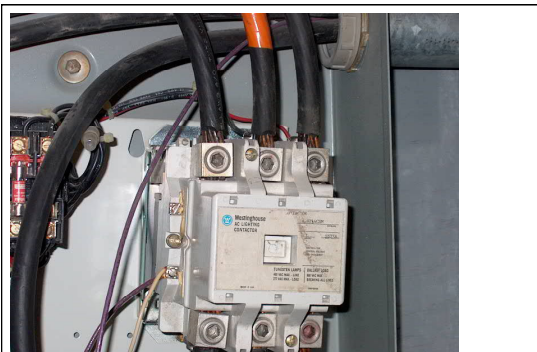
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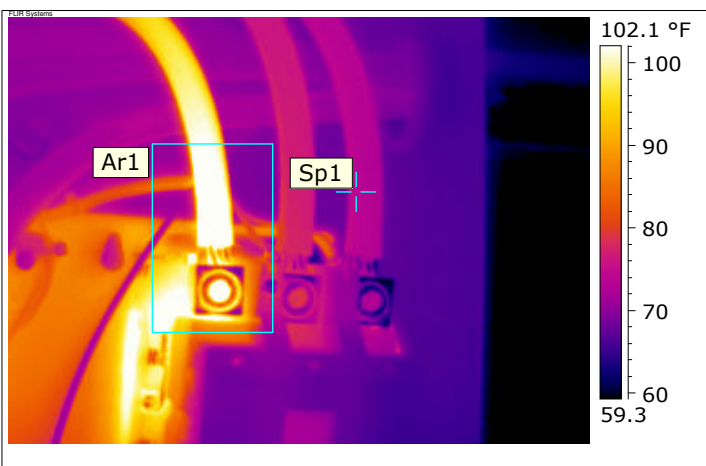
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Photo and Identification



IR Text Comment	Value
Location	PARKING DECK ELECTRIC CLOSET
Equipment	LIGHTING CONTACTOR
Nom load	100
Actual load	37
Fault	3
Recommendation	Repair

Thermogram 3/14/2006



Label	Value
Sp1	74.1 °F
Ar1: Max	115.1 °F
Temp rise (Ar1 - Sp1)	40.9 °F

Analysis & Recommended action:

HIGH RESISTANCE CONNECTION

REMOVE LUG AND CLEAN AND TIGHTEN ALL RELATED CONNECTIONS

A=37
B=41
C=34

Inspected by :

PETER PLEIN

Signature:.....

date: **01-23-2006**

Repaired by:

date:

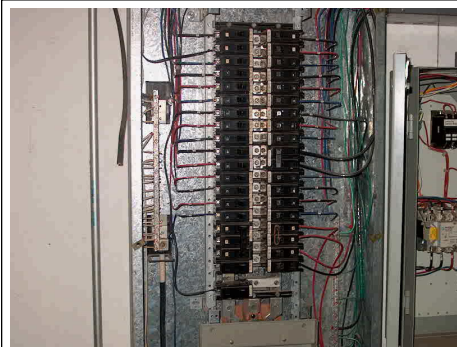
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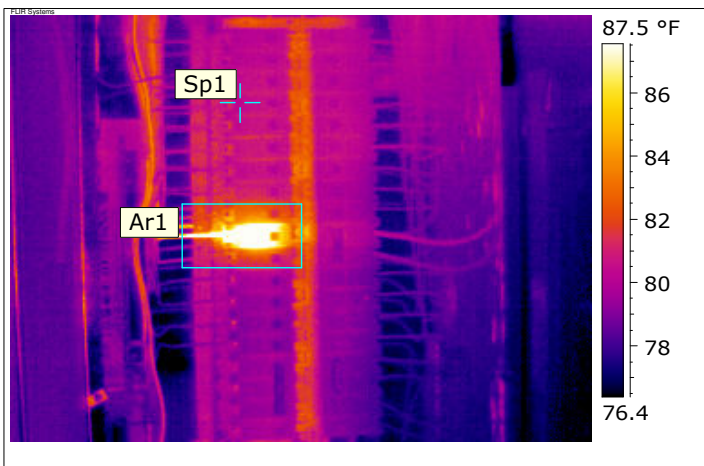
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01-23-2006

Photo and Identification



IR Text Comment	Value
Location	2ND FLOOR ELECTRIC ROOM
Equipment	PANELBOARD RP-3B
Nom load	20
Actual load	19.3
Fault	2
Recommendation	Repair
PROBLEM	OVERLOAD

Thermogram 3/14/2006



Label	Value
Sp1	80.3 °F
Ar1: Max	93.2 °F
Temp rise (Ar1 - Sp1)	12.9 °F

Analysis & Recommended action:

LOAD EXCEEDS 80% OF BREAKER RATING

REDUCE LOAD BELOW 80% OF 20 AMPS

Inspected by : PETER PLEIN

Signature:.....

date: **01-23-2006**

Repaired by:

date:

Comment:



Thermography Inspection
at
SMALLVILLE DPW

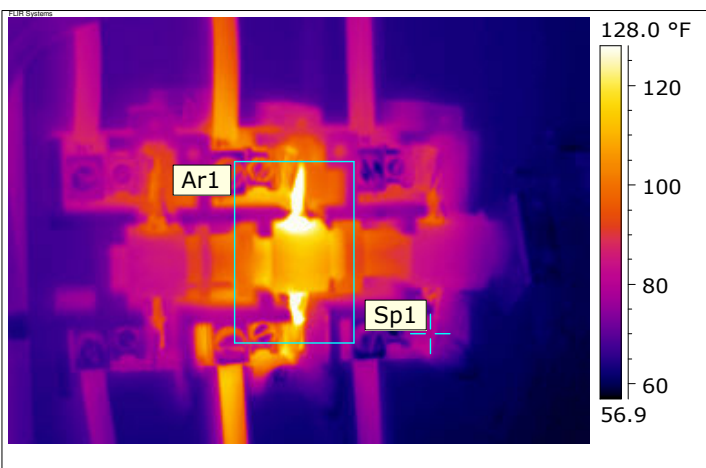
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IR Text Comment	Value
Location	PENTHOUSE
Equipment	DISCONNECT SWITCH
Nom load	100
Actual load	22
Fault	3
Recommendation	Repair
PROBLEM	CONTACT AREA WORN/LOOSE

Thermogram 3/21/2006



Label	Value
Sp1	78.6 °F
Ar1: Max	146.4 °F
Temp rise (Ar1 - Sp1)	67.8 °F

Analysis & Recommended action:

HIGH RESISTANCE CONNECTION

CLEAN BLADE AND BLADE PORT SURFACES AND CHECK BLADE PORT TENSION.

NOTE DISCOLORED WIRE A PHASE LOAD SIDE

Inspected by :

PETER PLEIN

Signature:.....

date: 01-23-2006

Repaired by:

date:

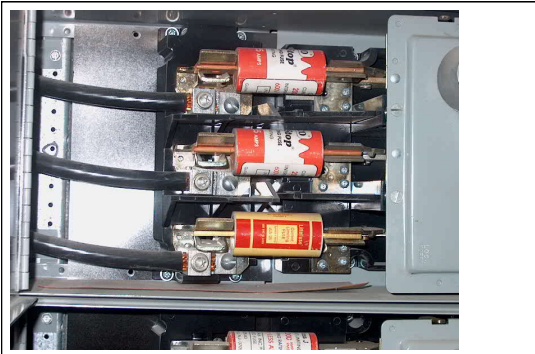
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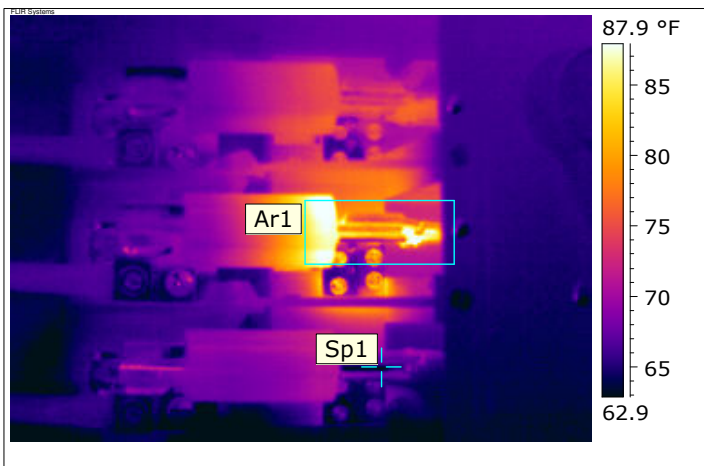
Date:
01-23-2006

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IR Text Comment	Value
Location	PENTHOUSE
Equipment	FUSED DISCONNECT SWITCH P-3
Nom load	100
Actual load	41
Fault	2
Recommendation	Repair

Thermogram 3/2/2006



Label	Value
Sp1	63.0 °F
Ar1: Max	92.3 °F
Temp rise (Ar1 - Sp1)	29.3 °F

Analysis & Recommended action:

HIGH RESISTANCE CONNECTION

CLEAN BLADE AND BLADE PORT SURFACES AND CHECK BLADE PORT TENSION.

Inspected by : PETER PLEIN

Signature:.....

date: **01-23-2006**

Repaired by:

date:

Comment: