

เอกสารแนบที่ 14
รายงานการตรวจสอบระบบไฟฟ้า


Baan Mai Khao - MDB PM2024

นิติบุคคลอาคารชุด บ้านไม้ขาว
8 หมู่ที่ 3 ตำบลไม้ขาว อำเภอถลาง
จังหวัดภูเก็ต 83110

Contact customer : Khun Dome
Contact number : 076 682 855-6
E-mail : pm-bmk@plus.co.th

Maintenance Report

Date of work : 14 Mar 2024

OMNI DIRECTION
Ekachai Rungsuwan
เอกชัย รุ่งสุวรรณ

14 Mar 2024

Report prepared by
Mr. Ekachai Rungsuwan

Date
14 Mar 2024

Service Order reference :

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Summary of Defect equipment and its status

Thank you for the opportunity to provide us to perform the services in the above reference project. Hereafter is quick summary for your consideration

Item	Equipments	Status	Faulty list	Corrective Action	Remark

We are recommended to establish/continues the following practices which will prevent possible damage to equipment and injury to personnel, as well as save your additional cost.

- A regular preventive maintenance schedule should be established/continues to obtain the best service and reliability from equipments.
- Plant operation and local conditions will dictate the frequency of inspection required.
- Keep spare part of critical part
- Consult to equipment specialist for any requirement

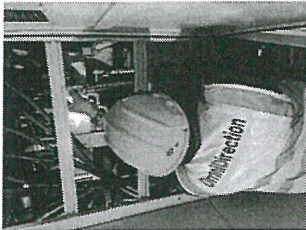
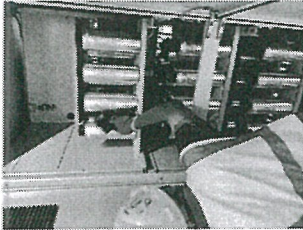

A permanent record of all preventive maintenance work should be kept, the status of equipment depending on the operation conditions. In any event, it will be a valuable reference for subsequent maintenance work and for station operation. It is recommended that the record include reports of tests made, the condition of equipment and repairs and adjustments that were made.

We hope you will keep Schneider Thailand-Services in mind for future projects in which we might be able to service your electrical distribution system.

Maintenance report

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Photograph

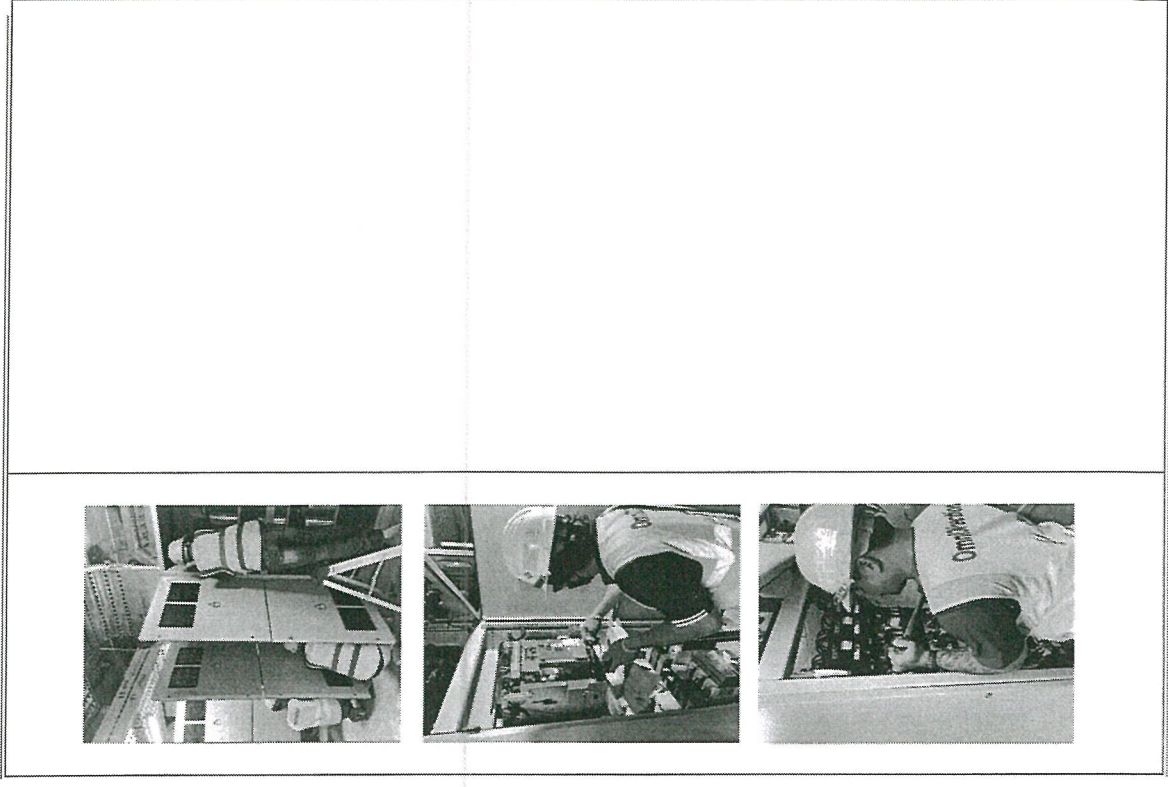
Photos

Preventive maintenance of MDB

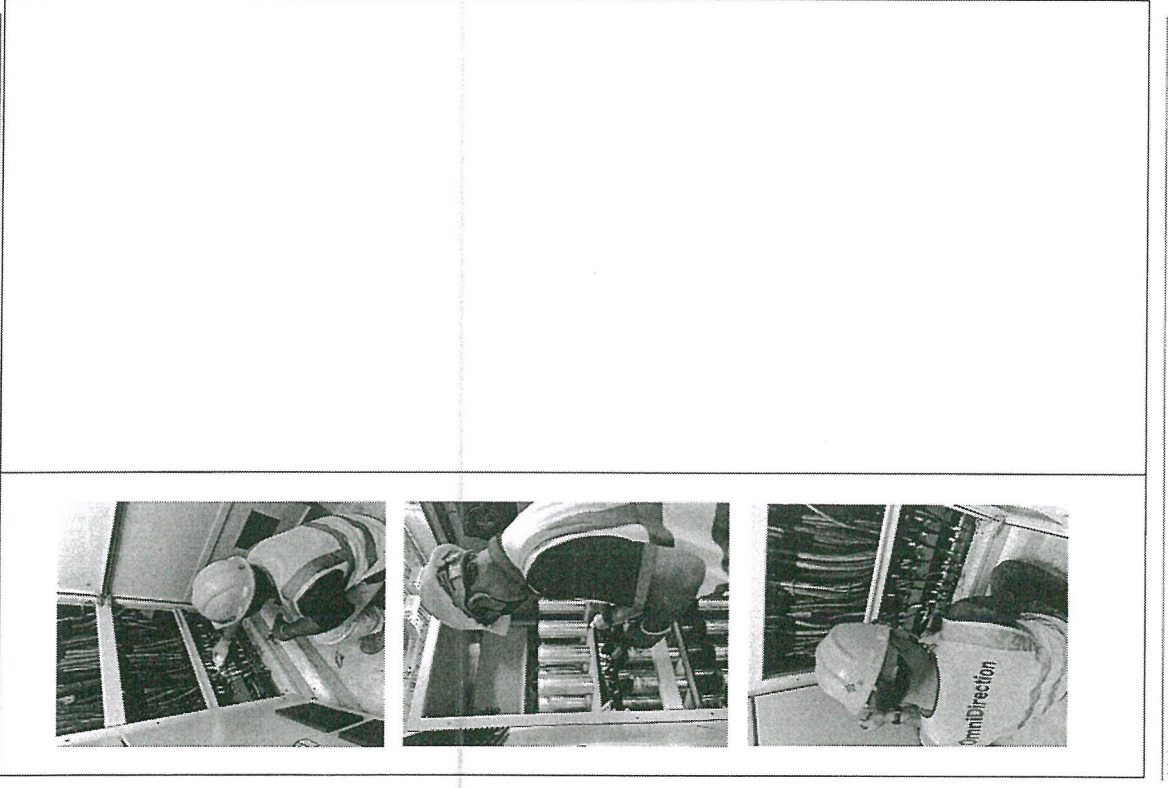
- Inspect physical and mechanical condition.
- Cleaning overall ,
- Test Insulation Resistance
- Test Grounding System
- Connection tightening torque

Maintenance report

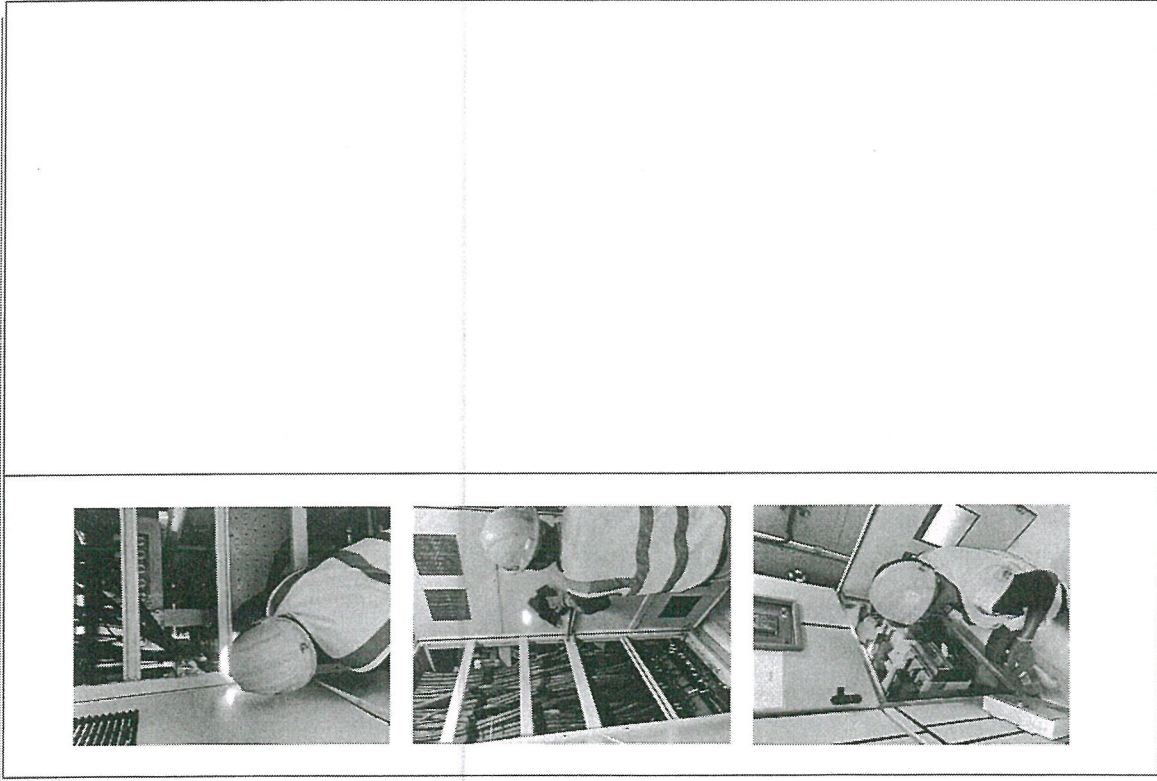
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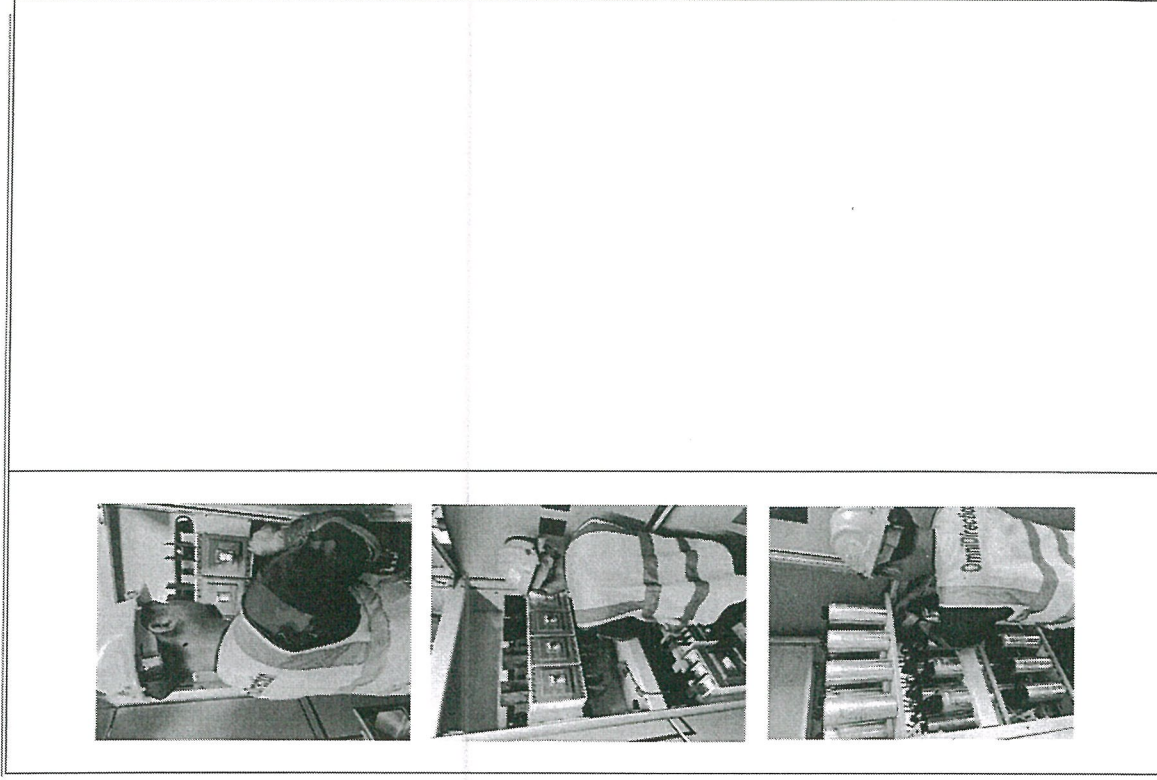
Maintenance report



Maintenance report



Maintenance report



Maintenance report



Project Name. : Baan Mai Khao - MDB PM2024

Location. : Electrical Room

SAP NO. : Phuket

Switchboard Name. : MDB1

Customer : บริษัทสายส่งไฟฟ้าภาคใต้ จำกัด

TECHNICAL DATA CUBICLE

Manufacture

Other

Type

Local

Year of manufacture

-

Rated service voltage Us

400 V.

Frequency

50 Hz.

Serial no.

-

VISUAL INSPECTION

	Checked	Remark
1. Cubicle undamaged and cleaned	<input checked="" type="checkbox"/>	
2. Name plate data is compliance with drawing and specification	<input checked="" type="checkbox"/>	
3. Wiring control connection tightening torque	<input checked="" type="checkbox"/>	
4. Busbar connection tightening torque	<input checked="" type="checkbox"/>	
5. Cable connection tightening torque	<input checked="" type="checkbox"/>	
6. Grounding condition check	<input checked="" type="checkbox"/>	
7. General condition check	<input checked="" type="checkbox"/>	
8. Metering check	<input checked="" type="checkbox"/>	
9. Insulation test	<input checked="" type="checkbox"/>	
10. Visual Check capacitor bank condition	<input checked="" type="checkbox"/>	
11. Magnetic contactor of capacitor bank condition check	<input checked="" type="checkbox"/>	
12. Fuse and fuse bases check	<input checked="" type="checkbox"/>	
13. Check input current of Heater	<input type="checkbox"/>	N/A

INSULATION RESISTANCE BUSBAR MEASUREMENT

Test connection	Test voltage (Vdc) , 1 min	Insulation resistance (GΩ)
A to GND.	500	1.664
B to GND.	500	1.650
C to GND.	500	1.563

Note : Ω = Ohm, kΩ = kilo-ohm, MΩ = Mega-ohm, GΩ = Giga-ohm, TΩ = Tera-ohm

Test Instruments : Megger C.A 6505 , Serial Number : 837655

- ** Check the cover of the field distributor is closed properly.
- ** As soon as the cable have been energized , the voltage indicator lamps should go on.

Remark :

Responsibility	Tested by	Approved by	Witnessed by
Company	Omni Direction Co.,Ltd.	Omni Direction Co.,Ltd.	
Name	Mr. Sombut Komat	Mr. Ekachai Rungsuwan	
Signature	Sombut K.	Ekachai R.	
Date	14 March 2024	14 March 2024	

Project Name. : Baan Mai Khao - MDB PM2024

Location. : Electrical Room

SAP NO. : Phuket

Switchboard Name. : MDB2

Customer : บริษัทสายส่งไฟฟ้าภาคใต้ จำกัด

TECHNICAL DATA CUBICLE

Manufacture

Other

Type

Local

Year of manufacture

-

Rated service voltage Us

400 V.

Frequency

50 Hz.

Serial no.

-

VISUAL INSPECTION

	Checked	Remark
1. Cubicle undamaged and cleaned	<input checked="" type="checkbox"/>	
2. Name plate data is compliance with drawing and specification	<input checked="" type="checkbox"/>	
3. Wiring control connection tightening torque	<input checked="" type="checkbox"/>	
4. Busbar connection tightening torque	<input checked="" type="checkbox"/>	
5. Cable connection tightening torque	<input checked="" type="checkbox"/>	
6. Grounding condition check	<input checked="" type="checkbox"/>	
7. General condition check	<input checked="" type="checkbox"/>	
8. Metering check	<input checked="" type="checkbox"/>	
9. Insulation test	<input checked="" type="checkbox"/>	
10. Visual Check capacitor bank condition	<input checked="" type="checkbox"/>	
11. Magnetic contactor of capacitor bank condition check	<input checked="" type="checkbox"/>	
12. Fuse and fuse bases check	<input checked="" type="checkbox"/>	
13. Check input current of Heater	<input type="checkbox"/>	N/A

INSULATION RESISTANCE BUSBAR MEASUREMENT

Test connection	Test voltage (Vdc) , 1 min	Insulation resistance (GΩ)
A to GND.	500	2.045
B to GND.	500	2.153
C to GND.	500	1.971

Note : Ω = Ohm, kΩ = kilo-ohm, MΩ = Mega-ohm, GΩ = Giga-ohm, TΩ = Tera-ohm

Test Instruments : Megger C.A 6505 , Serial Number : 837655

- ** Check the cover of the field distributor is closed properly.
- ** As soon as the cable have been energized , the voltage indicator lamps should go on.

Remark :

Responsibility	Tested by	Approved by	Witnessed by
Company	Omni Direction Co.,Ltd.	Omni Direction Co.,Ltd.	
Name	Mr. Sombut Komat	Mr. Ekachai Rungsuwan	
Signature	Sombut K.	Ekachai R.	
Date	14 March 2024	14 March 2024	

FIELD INSPECTION AND TEST RECORD

LOW VOLTAGE SWITCHBOARD

Project Name. : Baan Mai Khao - MDB PM2024 Location. : Electrical Room
SAP NO. : Phuket Switchboard Name. : EDP-A
Customer : บัญชีลูกค้ารายนี้ถูกเพิ่มเรียบร้อยแล้ว

TECHNICAL DATA CUBICLE

Manufacture : Other :
Type : Local :
Year of manufacture :
Rated service voltage Us : 400 V.
Frequency : 50 Hz.
Serial no. : -

VISUAL INSPECTION

	Checked	Remark
1. Cubicle undamaged and cleaned	<input checked="" type="checkbox"/>	
2. Name plate data is compliance with drawing and specification	<input checked="" type="checkbox"/>	
3. Wiring control connection tightening torque	<input checked="" type="checkbox"/>	
4. Busbar connection tightening torque	<input checked="" type="checkbox"/>	
5. Cable connection tightening torque	<input checked="" type="checkbox"/>	
6. Grounding condition check	<input checked="" type="checkbox"/>	
7. General condition check	<input checked="" type="checkbox"/>	
8. Metering check	<input checked="" type="checkbox"/>	
9. Insulation test	<input checked="" type="checkbox"/>	
10. Visual Check capacitor bank condition	<input checked="" type="checkbox"/>	
11. Magnetic contactor of capacitor bank condition check	<input checked="" type="checkbox"/>	
12. Fuse and fuse bases check	<input checked="" type="checkbox"/>	
13. Check input current of Heater	<input type="checkbox"/>	N/A

INSULATION RESISTANCE BUSBAR MEASUREMENT

Test connection	Test voltage (Vdc) , 1 min	Insulation resistance (GΩ)
A to GND.	500	1.512
B to GND.	500	2.335
C to GND.	500	2.833

Note : Ω = Ohm, kΩ = kilo-ohm, MΩ = Mega-hm, GΩ = Giga-ohm, TΩ = Tera-ohm

Test instruments : Megger C.A 6505 , Serial Number : 837655

** Check the cover of the field distributor is closed properly.

** As soon as the cable have been energized , the voltage indicator lamps should go on.

Remark :

Responsibility	Tested by	Approved by	Witnessed by
Company	Omni Direction Co.,Ltd.	Omni Direction Co.,Ltd.	
Name	Mr. Sombut Komat	Mr. Ekachai Rungsuwan	
Signature	Sombut K.	Ekachai R.	
Date	14 March 2024	14 March 2024	

FIELD INSPECTION AND TEST RECORD

LOW VOLTAGE SWITCHBOARD

Project Name. : Baan Mai Khao - MDB PM2024 Location. : Electrical Room
SAP NO. : Phuket Switchboard Name. : EDP-B
Customer : บัญชีลูกค้ารายนี้ถูกเพิ่มเรียบร้อยแล้ว

TECHNICAL DATA CUBICLE

Manufacture : Other :
Type : Local :
Year of manufacture :
Rated service voltage Us : 400 V.
Frequency : 50 Hz.
Serial no. : -

VISUAL INSPECTION

	Checked	Remark
1. Cubicle undamaged and cleaned	<input checked="" type="checkbox"/>	
2. Name plate data is compliance with drawing and specification	<input checked="" type="checkbox"/>	
3. Wiring control connection tightening torque	<input checked="" type="checkbox"/>	
4. Busbar connection tightening torque	<input checked="" type="checkbox"/>	
5. Cable connection tightening torque	<input checked="" type="checkbox"/>	
6. Grounding condition check	<input checked="" type="checkbox"/>	
7. General condition check	<input checked="" type="checkbox"/>	
8. Metering check	<input checked="" type="checkbox"/>	
9. Insulation test	<input checked="" type="checkbox"/>	
10. Visual Check capacitor bank condition	<input checked="" type="checkbox"/>	
11. Magnetic contactor of capacitor bank condition check	<input checked="" type="checkbox"/>	
12. Fuse and fuse bases check	<input checked="" type="checkbox"/>	
13. Check input current of Heater	<input type="checkbox"/>	N/A

INSULATION RESISTANCE BUSBAR MEASUREMENT

Test connection	Test voltage (Vdc) , 1 min	Insulation resistance (kΩ)
A to GND.	500	667
B to GND.	500	668
C to GND.	500	667

Note : Ω = Ohm, kΩ = kilo-ohm, MΩ = Mega-hm, GΩ = Giga-ohm, TΩ = Tera-ohm

Test instruments : Megger C.A 6505 , Serial Number : 837655

** Check the cover of the field distributor is closed properly.

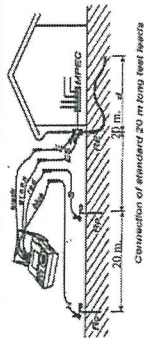
** As soon as the cable have been energized , the voltage indicator lamps should go on.

Remark :

Responsibility	Tested by	Approved by	Witnessed by
Company	Omni Direction Co.,Ltd.	Omni Direction Co.,Ltd.	
Name	Mr. Sombut Komat	Mr. Ekachai Rungsuwan	
Signature	Sombut K.	Ekachai R.	
Date	14 March 2024	14 March 2024	

Project Name.	Baan Mai Khao - MDB PM2024	Location.	Electrical Room
SAP No.	-	Section :	-
Customer.	ปณิธานการทหาร บำบัดนิรโทษกรรม	Cubicle Name :	MDB

Checking Test	
1. Cover seal visual check	<input checked="" type="checkbox"/>
2. Cleaning box or joint	<input type="checkbox"/>
3. Visual check cable	<input checked="" type="checkbox"/>
4. Retorque connection	<input checked="" type="checkbox"/>

[illegible]

REMARK :

Responsibility	Tested by	Approved by	Witnessed By
Company Name	Omit Direction Co.,Ltd.	Omit Direction Co.,Ltd.	
Signature	Mr. Somchai Komnet	Mr. Eakharin Rungtawin	
Date	Sombud K. 14 March 2024	Teachaporn 14 March 2024	

[illegible]

Step No.	Current measurement			Capacitance measurement			Result	Power Fuse	Indicator Lamp
	Phase A	Phase B	Phase C	Phase A-B	Phase B-C	Phase C-A			
1.	-	-	-	360	361	359	Pass	✓	✓
2.	-	-	-	359	357	358	Pass	✓	
3.	-	-	-	357	360	358	Pass	✓	
4.	-	-	-	381	357	359	Pass	✓	
5.	-	-	-	362	368	360	Pass	✓	
6.	-	-	-	362	357	359	Pass	✓	
7.	-	-	-	35	356	357	Pass	✓	
8.	-	-	-	360	357	359	Pass	✓	
9.	-	-	-	317	357	369	Not Pass	✓	
10.	-	-	-	360	359	359	Pass	✓	
11.	-	-	-	367	355	355	Pass	✓	
12.	-	-	-	381	358	359	Pass	✓	

Note: ✓ = Pass ✕ = Not Pass N/A = Not applicable

Note: ✓ = Pass, ✗ = Not Pass, N/A = Not applicable

Responsibility	Tested by	Approved by	Witnessed By
Company	Omni Direction Co., Ltd.	Omni Direction Co., Ltd.	
Name	Mr. Sombat Komet	Mr. Ekachai Rungsuwan	
Signature	<i>Sombat K.</i>	<i>Ekachai R.</i>	
Date	14-Mar-24	14-Mar-24	

Schneider Electric						Omnidirection					
FIELD INSPECTION AND TEST RECORD											
CAPACITOR BANK PANEL											
Project Ref.	:	Baan Mai Khao - MD8 PM2024	Location.	:	Electrical Room						
S/Site.	:	Phuket	Panel No.	:	MD81						
Customer.	:	สำนักงานการประปา จังหวัดภูเก็ต	Feeder Name.	:	CAP						

$kVAR_R = kVAR_R \times V_A^2 \times \frac{f_s}{V_R^2}$	=	35.00	kVar	=	35.00	A./Set
$C_{LL} = \frac{3C_n}{2}$	=	348	μF . / Set for A Conn.	=	348	μF . @ 1 Set
			No. of prarailal capacitors	=	1	

The capacitance shall not differ from the rated capacitance by more than -.5% to + 10% for capacitor units and banks up to 3 Mvar total rating refer to IEC 60870-1 ;
Tolerances : 330.6 μF to 382.8 μF or 47.99 A. to 55.57 A.

3. VOLTAGE AND CURRENT OF COOLING FAN MEASUREMENT

Test Instruments :

Serial Number :

The capacitance shall not differ from the rated capacitance by more than -5% to +10% for capacitor units and banks up to 3 Mvar/total rating refer to IEC 60870-1 ; Tolerances : 330.6 μ F to 382.8 μ F or 47.99 A to 55.57 A.

3. VOLTAGE AND CURRENT OF COOLING FAN MEASUREMENT

Position *	Voltage measurement (V)	Current measurement (A)
Fan no. 1		
Fan no. 2		
Fan no. 3		
Fan no. 4		

Remark: in Cancitor Bank Sted of a "Hilfungsanstalt"

Responsibility	Tested by	Approved by	Witnessed By
Company	Omni Direction Co.,Ltd.	Omni Direction Co.,Ltd.	
Name	Mr. Sombat Konet	Mr. Etachai Rungsuan	
Signature	<i>SOMBAT K.</i>	<i>ETACHAI R.</i>	
Date	14.May/24	14.May/24	

Schneider Electric

FIELD INSPECTION AND TEST RECORD

CAPACITOR BANK PANEL

OmniDirection

Project Ref. : Baan Mai Khao - MDB PM2024

Location. : Electrical Room

Site. : Phuket

Panel No. : MDB2

Customer. : บริษัทมหาชน จำกัด

Feeder Name. : CAP

TECHNICAL DATA

☒ FUSE

☐ MCCB

Manufacture

MRO

NH 100 C

100

A.

Rated current (In)

☒ MAGNETIC CONTACTOR

Manufacture

FRANKE

GMPKPMC II - 95/50

400

V.

Rated operation voltage (Ue)

100

A.

Rated operation current (Ie)

kV.

Impulse withstand voltage (Uimp)

V.

Rated insulation voltage (Ui)

V.

☒ CAPACITOR

Manufacture

FRANKE

GMPK440-3-13.2

400

V.

Rated voltage (Un)

50

Hz.

Rated frequency (fn)

35

kVar.

Rated output (Qn)

232

µF.

Rated capacitance (Cn)

34

kV.

Insulation level (Ui)

Delta

-25/D

Connection

IEC (EN) 60831-1(96)

Standard

1. VISUAL INSPECTION AND FUNCTION TEST

Inspect physical and mechanical condition

Inspect alignment, grounding and clearances

Clean the unit

Verify tightness of accessible bolted electrical connection

Power Factor Controller (PFC)

Manufacture

FRANKE

Type

GMKPC 800II

Number of output

14

CT ratio

3200/5

Serial no.

Setting : Starting current setting (C/K)

0.95

Switching time between steps

30

s.

Power factor setting

Switching sequences

1,1,1

Voltage measurement : A - N = 400 V.

B - N = 400 V.

C - N = 400 V.

A - B = 230 V.

B - C = 230 V.

C - A = 230 V.

2. CURRENT AND CAPACITANCE MEASUREMENT

Test Instruments : Digital Meter Fluke 325

Serial Number : 34070127WS

Step No.	Current measurement			Capacitance measurement			Result	Power Fuse	Indicator Lamp
	Phase A	Phase B	Phase C	Phase A-B	Phase B-C	Phase C-A			
1.	-	-	-	359	357	356	Pass	✓	✓
2.	-	-	-	358	357	356	Pass	✓	✓
3.	-	-	-	360	355	357	Pass	✓	✓
4.	-	-	-	359	356	356	Pass	✓	✓
5.	-	-	-	360	358	359	Pass	✓	✓
6.	-	-	-	359	357	358	Pass	✓	✓
7.	-	-	-	359	357	358	Pass	✓	✓
8.	-	-	-	360	358	359	Pass	✓	✓
9.	-	-	-	360	358	358	Pass	✓	✓
10.	-	-	-	360	358	358	Pass	✓	✓
11.	-	-	-	348	356	359	Pass	✓	✓
12.	-	-	-	360	358	358	Pass	✓	✓

Note: ✓ = Pass, ✕ = Not Pass, N/A = Not applicable

Responsibility	Tested by	Approved by	Witnessed By
Company	Omni Direction Co., Ltd.	Omni Direction Co., Ltd.	
Name	Mr. Sombat Komet	Mr. Ekachai Rungsuwan	
Signature	Sombat K.	Ekachai R.	
Date	14-Mar-24	14-Mar-24	

Schneider Electric

FIELD INSPECTION AND TEST RECORD

CAPACITOR BANK PANEL

OmniDirection

Project Ref. : Baan Mai Khao - MDB PM2024

Location. : Electrical Room

Site. : Phuket

Panel No. : MDB2

Customer. : บริษัทมหาชน จำกัด

Feeder Name. : CAP

TECHNICAL DATA

☒ FUSE

☐ MCCB

Manufacture

MRO

NH 100 C

100

A.

Rated current (In)

☒ MAGNETIC CONTACTOR

Manufacture

FRANKE

GMPKPMC II - 95/50

400

V.

Rated operation voltage (Ue)

100

A.

Rated operation current (Ie)

kV.

Impulse withstand voltage (Uimp)

V.

Rated insulation voltage (Ui)

V.

☒ CAPACITOR

Manufacture

FRANKE

GMPK440-3-13.2

400

V.

Rated voltage (Un)

50

Hz.

Rated frequency (fn)

35

kVar.

Rated output (Qn)

232

µF.

Rated capacitance (Cn)

34

kV.

Insulation level (Ui)

Delta

-25/D

Connection

IEC (EN) 60831-1(96)

Standard

3. VOLTAGE AND CURRENT OF COOLING FAN MEASUREMENT

Test Instruments : , Serial Number :

Position	Voltage measurement (V)	Current measurement (A)
Fan no. 1		
Fan no. 2		
Fan no. 3		
Fan no. 4		

The capacitance shall not differ from the rated capacitance by more than -5% to +10% for capacitor units and banks up to 3 Mvar total rating refer to IEC 60870-1 ; Tolerances : 330.6 µF to 382.8 µF or 47.99 A. to 55.57 A.

3. VOLTAGE AND CURRENT OF COOLING FAN MEASUREMENT

Test Instruments : , Serial Number :

Position	Voltage measurement (V)	Current measurement (A)
Fan no. 1		
Fan no. 2		
Fan no. 3		
Fan no. 4		

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Fan no. 4		

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Fan no. 4		

The capacitance shall not differ from the rated capacitance by more than -5% to +10% for capacitor units and banks up to 3 Mvar total rating refer to IEC 60870-1 ; Tolerances : 330.6 µF to 382.8 µF or 47.99 A. to 55.57 A.

Responsibility	Tested by	Approved by	Witnessed By
Company	Omni Direction Co., Ltd.	Omni Direction Co., Ltd.	
Name	Mr. Sombat Komet	Mr. Ekachai Rungsuwan	
Signature	Sombat K.	Ekachai R.	
Date	14-Mar-24	14-Mar-24	

Omni Direction Services

Infrared Thermography Report
(Pre-Maintenance IR Scan)

Baan Mai Khao - MDB PM2024

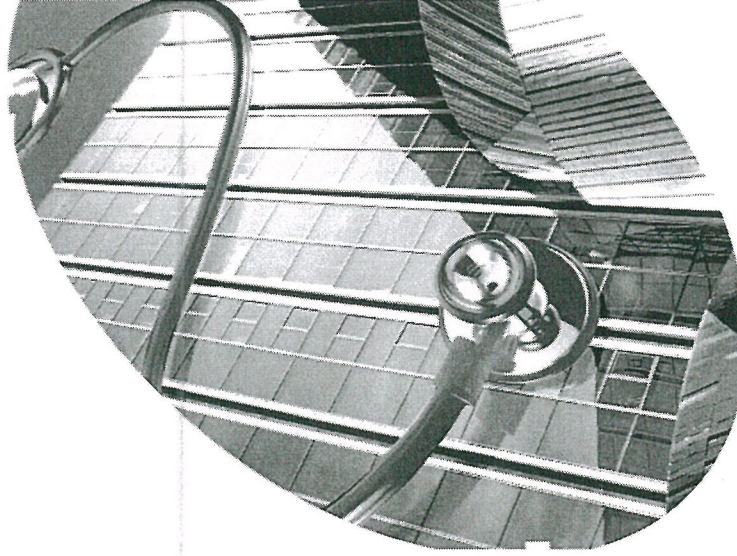
Carried out on : 14/03/2024

Infrared Thermography Inspection Report Baan Mai Khao

Infrared Thermography Report
(Pre-Maintenance IR Scan)

Baan Mai Khao - MDB PM2024

Carried out on : 14/03/2024



Merlin Gerin
Square D
Telemecanique

Omni Direction Co., Ltd.
34/23 Sakdidej Rd, T.Wichit, A.Muang,
Phuket 83000
Tel 076 606 235
Fax 076 608 636
Hotline 24Hrs 086-7110484

OmniDirection
Service Partner of **Schneider Electric**

Forward

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.

How Infrared Thermography Works

Infrared imagers "see" the heat radiated from your equipment in real time, just like a video camera sees visible light. In black/white thermograms (pictures of heat), white is hot and black is cold unless stated otherwise. When thermograms are in color, colors in the scene are matched to the reference. Colors appearing closer to the top or right of the reference bar indicate higher temperatures. Colors appearing closer to the bottom or left of the reference bar indicate lower temperatures.

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 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 Subject Repair Priority Ratings as a guide that you investigate and take appropriate corrective measures as soon as possible.

Inspection Summary

For the equipment inspected, we have present a total of **28** thermogram(s) and/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, NFPA and the NFPA Institute Guideline for Infrared Inspection of Electrical and Mechanical Systems.

Depending upon Image Page format, Subjective and/or Objective Priority Ratings may be found. When both are listed, as 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

For Temp. Difference (delta-T) based on comparisons between similar components under similar loading.

Priority 1: 2 to 5 C	Minor Problem Possible deficiency; warrants investigation
Priority 2: 6 to 15 C	Medium Problem Indicates probable deficiency; repair as time permits
Priority 3: > 15C	Serious Problem Major discrepancy; repair immediately

Report Summary


Report Summary

Inspection date:	14/03/2024
Report date:	24/03/2024
End User:	Baan Mai Khao
Project Location:	Phuket
Type of Inspection:	Qualitative Electrical System
Purpose of Inspection:	Pre-Maintenance Scan
Certified Thermographer:	Mr. Ekachai Rungsuwan
Certification Number:	Certificate Level-I No. 1-000694
Equipment Used:	Electrophysics Hotshot LT
No. of Thermograms:	48
Comments:	Most of the problems that we found on Electrical Systems are probably due to poor or loose connection or overload and unbalance load. Therefore please check, clean and measure load of each phase at indicated points for corrective action.

Report	Equipment	Detail	Location	Status	Page
1	MDB	Fuse and Relay Control	EE Room	Normal Operation	
2	MDB	Main ACB	EE Room	Normal Operation	
3	MDB	Main ACB	EE Room	Normal Operation	
4	MDB	MCCB For Branch	EE Room	Normal Operation	
5	MDB	KWh Meter	EE Room	Normal Operation	
6	MDB	MCCB For Branch	EE Room	Normal Operation	
7	MDB	MCCB For Branch	EE Room	Normal Operation	
8	MDB	MCCB For Branch	EE Room	Normal Operation	
9	MDB	Main ACB	EE Room	Normal Operation	
10	MDB	Main Cable and Busbar Connection	EE Room	Normal Operation	
11	MDB	Main Cable and Busbar Connection	EE Room	Normal Operation	
12	MDB	Main Cable and Busbar Connection	EE Room	Normal Operation	
13	MDB	Main Cable and Busbar Connection	EE Room	Normal Operation	
14	MDB	Main Cable and Busbar Connection	EE Room	Normal Operation	
15	MDB	Fuse and Relay Control	EE Room	Normal Operation	
16	MDB	HRC Fuse and Magnetic	EE Room	Normal Operation	
17	MDB	HRC Fuse and Magnetic	EE Room	Normal Operation	
18	MDB	HRC Fuse and Magnetic	EE Room	Normal Operation	
19	MDB	Capacitor Bank	EE Room	Normal Operation	
20	MDB	Capacitor Bank	EE Room	Normal Operation	
21	MDB	Capacitor Bank	EE Room	Normal Operation	
22	MDB	Protection Relay	EE Room	Normal Operation	
23	MDB	Main ACB	EE Room	Normal Operation	
24	MDB	MCCB For Branch	EE Room	Normal Operation	
25	MDB	MCCB For Branch	EE Room	Normal Operation	
26	MDB	MCCB For Branch	EE Room	Normal Operation	
27	MDB	HRC Fuse and Magnetic	EE Room	Normal Operation	
28	MDB	HRC Fuse and Magnetic	EE Room	Normal Operation	
29	MDB	HRC Fuse and Magnetic	EE Room	Normal Operation	
30	MDB	Capacitor Bank	EE Room	Normal Operation	
31	MDB	Capacitor Bank	EE Room	Normal Operation	
32	MDB	Capacitor Bank	EE Room	Normal Operation	
33	MDB	Main Cable and Busbar Connection	EE Room	Normal Operation	
34	MDB	Main Cable and Busbar Connection	EE Room	Normal Operation	

Report Summary

Report	Equipment	Detail	Location	Status	Page
35	MDB	Main Cable and Busbar Connection	EE Room	Normal Operation	
36	MDB	Fuse and Relay Control	EE Room	Normal Operation	
37	MDB	ATS Normal and Emergency	EE Room	Normal Operation	
38	MDB	ATS Normal and Emergency	EE Room	Normal Operation	
39	MDB	MCCB For Branch	EE Room	Normal Operation	
40	MDB	MCCB For Branch	EE Room	Normal Operation	
41	MDB	MCCB For Branch	EE Room	Normal Operation	
42	MDB	Fuse and Relay Control	EE Room	Normal Operation	
43	MDB	ATS Normal and Emergency	EE Room	Normal Operation	
44	MDB	ATS Normal and Emergency	EE Room	Normal Operation	
45	MDB	MCCB For Branch	EE Room	Normal Operation	
46	MDB	MCCB For Branch	EE Room	Normal Operation	
47	MDB	MCCB For Branch	EE Room	Normal Operation	
48	MDB	MCCB For Branch	EE Room	Normal Operation	



Infrared Research & Training Center

BE IT KNOWN THAT

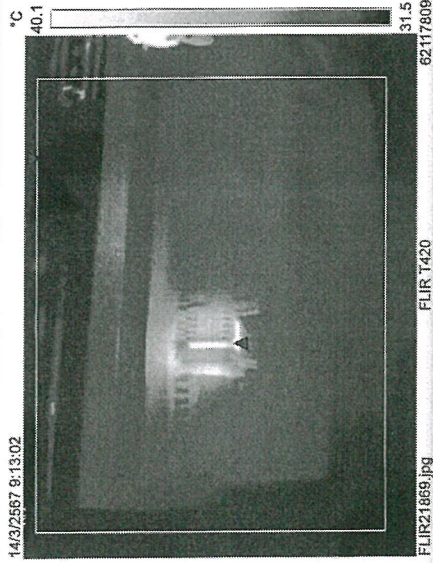
Mr. Ekachai Rungsuwan

HAS SUCCESSFULLY COMPLETED THE REQUIREMENTS FOR

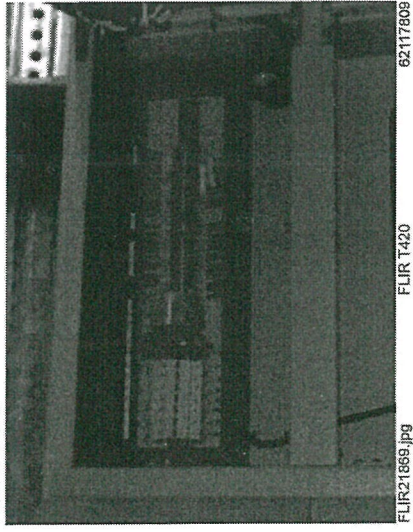
LEVEL I THERMOGRAPHER

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements			°C
Ar1	Max	43.9	31.5
	Min	31.5	
	Average	32.9	
Parameters			
Emissivity			0.92
Ref. temp.			20 °C
Geolocation			
Compass	N		



14/3/2567 9:13:02

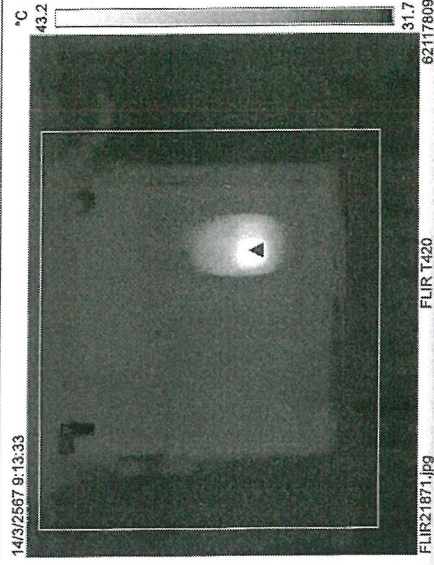


Text annotations

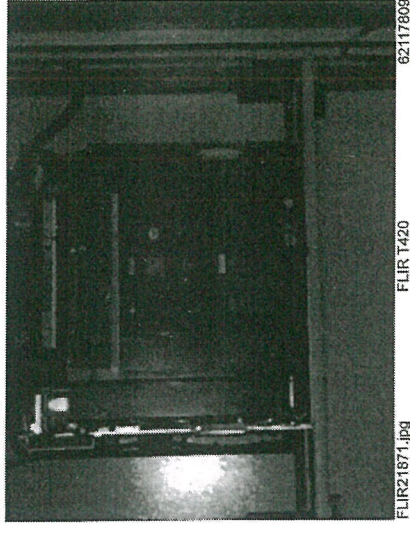
Location :	EE Room
Equipment :	MDB
Detail :	Fuse and Relay Control
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements			°C
Ar1	Max	46.7	31.7
	Min	31.5	
	Average	32.6	
Parameters			
Emissivity			0.92
Ref. temp.			20 °C
Geolocation			
Compass	N		



14/3/2567 9:13:33

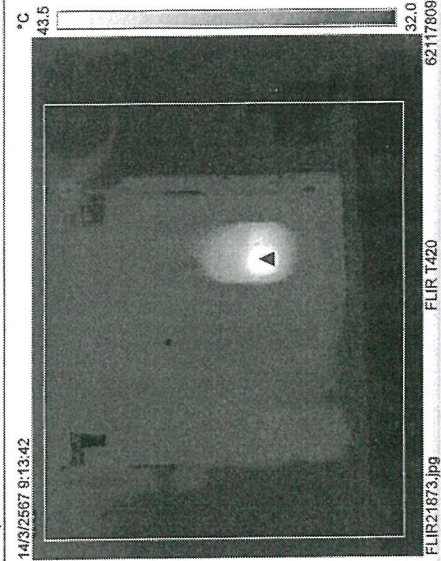


Text annotations

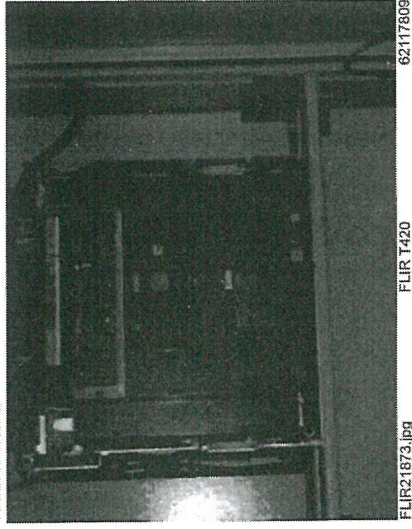
Location :	EE Room
Equipment :	MDB
Detail :	Main ACB
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements			°C
Ar1	Max	46.8	
	Min	31.6	
	Average	32.8	
Parameters			
Emissivity		0.92	
Ref. temp.		20 °C	
Geolocation			
Compass		N	



14/3/2567 9:13:42

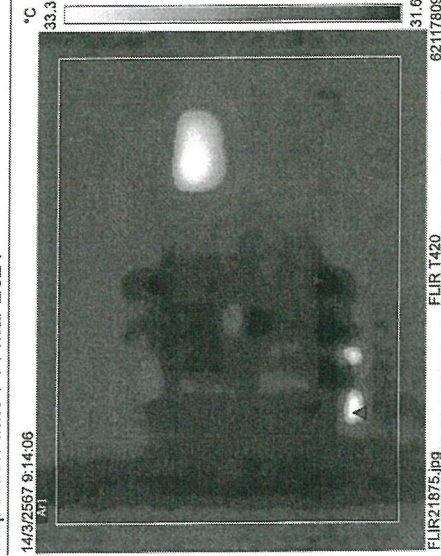


Text annotations

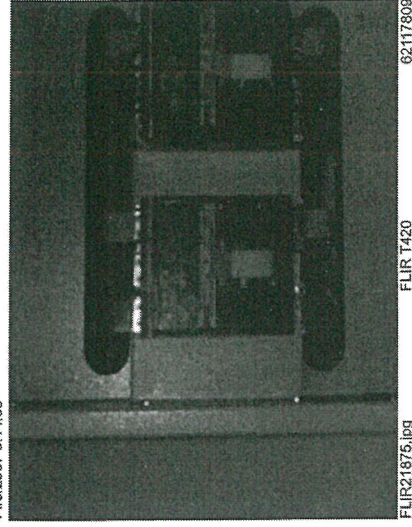
Location :	EE Room
Equipment :	MDB
Detail :	Main ACB
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements			°C
Ar1	Max	33.6	
	Min	31.5	
	Average	31.8	
Parameters			
Emissivity		0.92	
Ref. temp.		20 °C	
Geolocation			
Compass	N		



14/3/2567 9:14:06

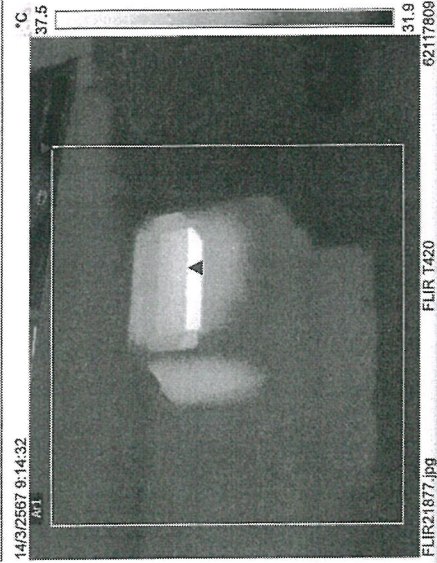


Text annotations

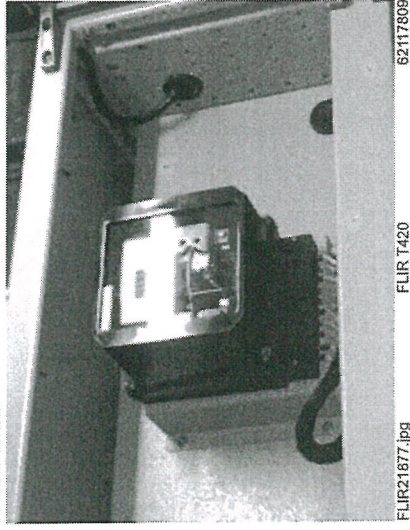
Location :	EE Room
Equipment :	MDB
Detail :	MCCB For Branch
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements			°C
Ar1	Max	37.9	
	Min	32.0	
	Average	32.9	
Parameters			
Emissivity	0.92		
Ref. temp.	20 °C		
Geolocation			
Compass	NE		



14/3/2567 9:14:32



Text annotations

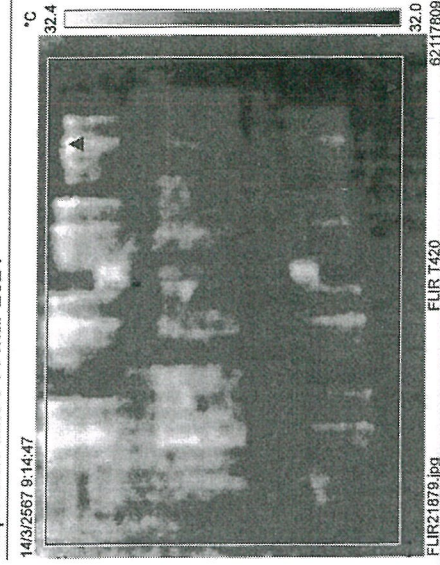
Location :	EE Room
Equipment :	MDB
Detail :	kWh Meter
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

5/48

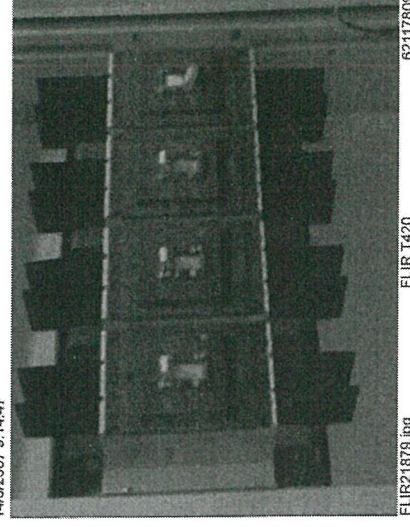
Inspection By : Ekachai R.
14 Mar 2024

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements			°C
Ar1	Max	32.5	
	Min	31.9	
	Average	32.2	
Parameters			
Emissivity	0.92		
Ref. temp.	20 °C		
Geolocation			
Compass	N		



14/3/2567 9:14:47



Text annotations

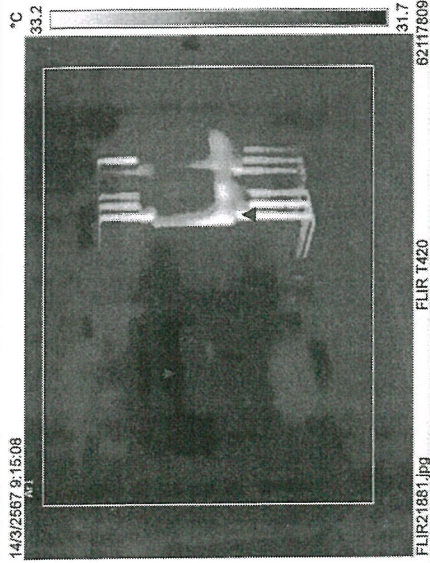
Location :	EE Room
Equipment :	MDB
Detail :	MCCB For Branch
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

6/48

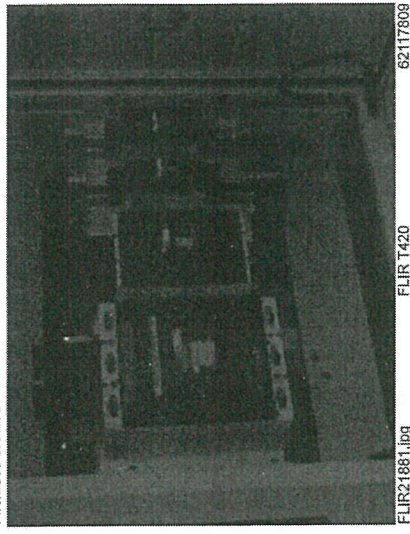
Inspection By : Ekachai R.
14 Mar 2024

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements		°C
Ar1	Max	33.5
	Min	31.7
	Average	32.0
Parameters		
Emissivity	0.92	
Ref. temp.	20 °C	
Geolocation		
Compass	N	



14/3/2567 9:15:08



Text annotations

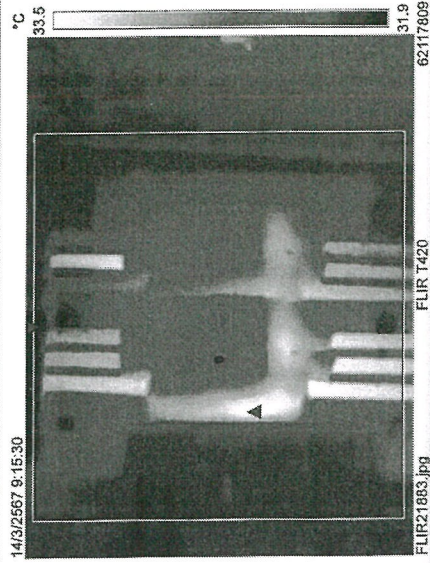
Location :	EE Room
Equipment :	MDB
Detail :	MCCB For Branch
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

7/48

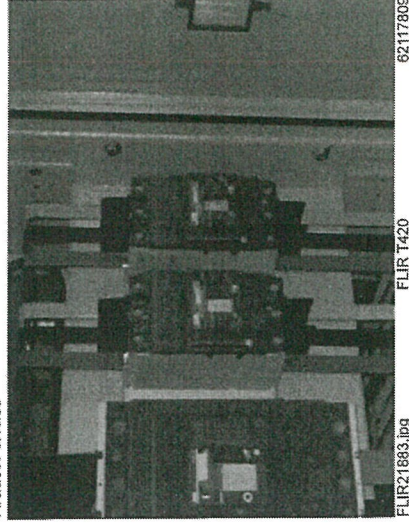
Inspection By : Ekachai R.
14 Mar 2024

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements		°C
Ar1	Max	33.8
	Min	31.7
	Average	32.4
Parameters		
Emissivity		0.92
Ref. temp.		20 °C
Geolocation		
Compass		N



14/3/2567 9:15:30




Text annotations

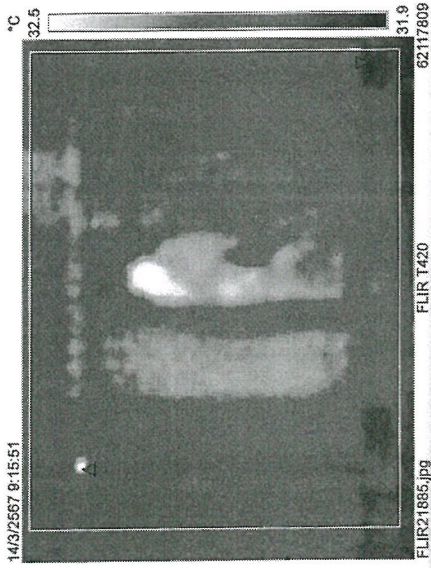
Location :	EE Room
Equipment :	MDB
Detail :	MCCB For Branch
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

8/48

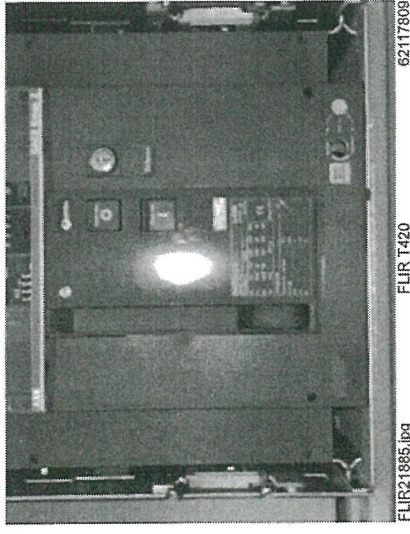
Inspection By : Ekachai R.
14 Mar 2024

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements			°C
At1	Max	32.6	
	Min	31.9	
	Average	32.2	
Parameters			
Emissivity		0.92	
Ref. temp.		20 °C	
Geolocation			
Compass		N	



14/3/2567 8:15:51




Text annotations

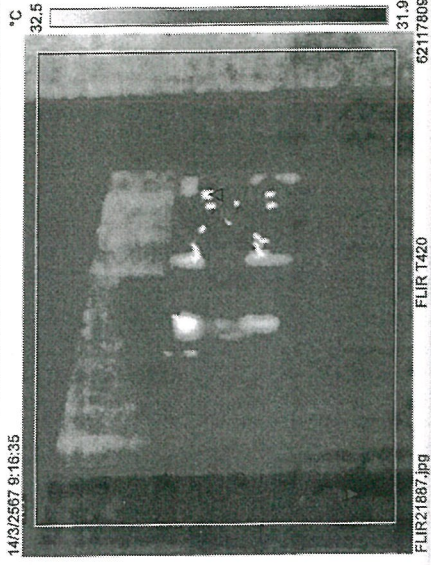
Location :	EE Room
Equipment :	MDB
Detail :	Main ACB
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

9/48

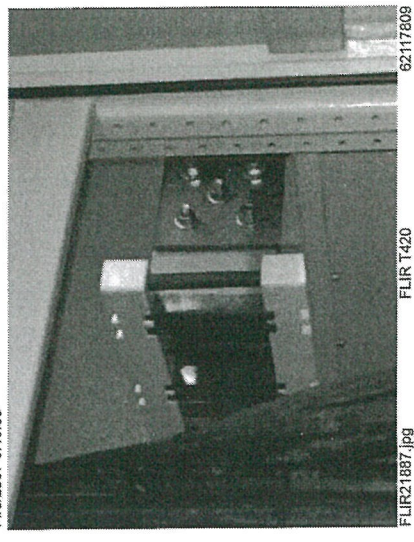
Inspected By : Ekachai R.
14 Mar 2024

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements			°C
At1	Max	34.1	
	Min	31.8	
	Average	32.1	
Parameters			
Emissivity		0.92	
Ref. temp.		20 °C	
Geolocation			
Compass		SW	



14/3/2567 8:16:35



Text annotations

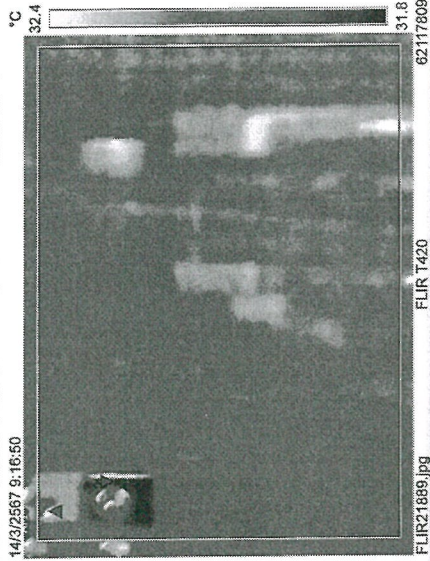
Location :	EE Room
Equipment :	MDB
Detail :	Main Cable and Busbar Connection
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

10/48

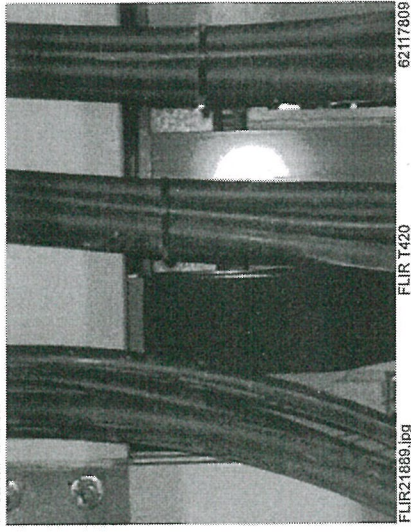
Inspected By : Ekachai R.
14 Mar 2024

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements			°C
Ar1	Max	33.0	
	Min	31.7	
	Average	32.1	
Parameters			
Emissivity			0.92
Ref. temp.			20 °C
Geolocation			
Compass			E



14/3/2567 9:16:50



Text annotations

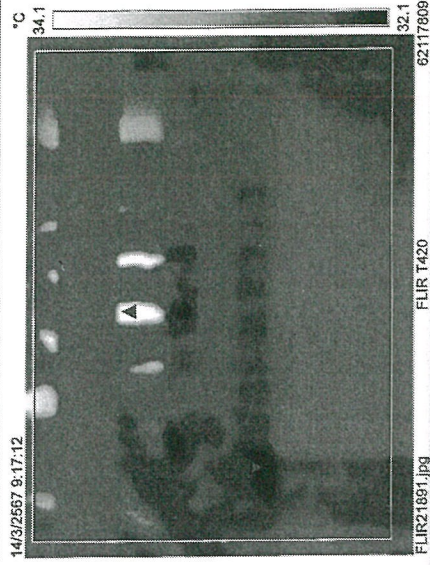
Location :	EE Room
Equipment :	MDB
Detail :	Main Cable and Busbar Connection
Comment :	Normal operation, Not found hotspot
	Should also keep for your future reference

11/48

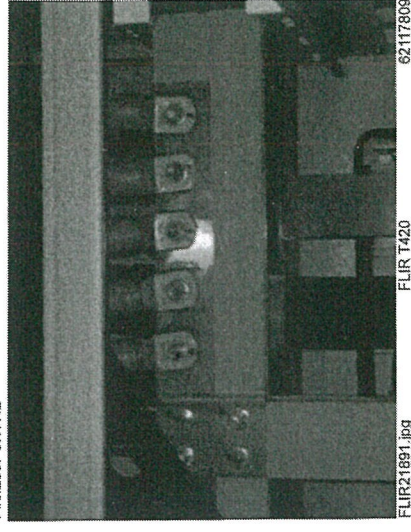
Inspection By : Ekachai R.
14 Mar 2024

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements			°C
Ar1	Max	34.8	
	Min	31.9	
	Average	32.5	
Parameters			
Emissivity			0.92
Ref. temp.			20 °C
Geolocation			
Compass			S



14/3/2567 9:17:12



Text annotations

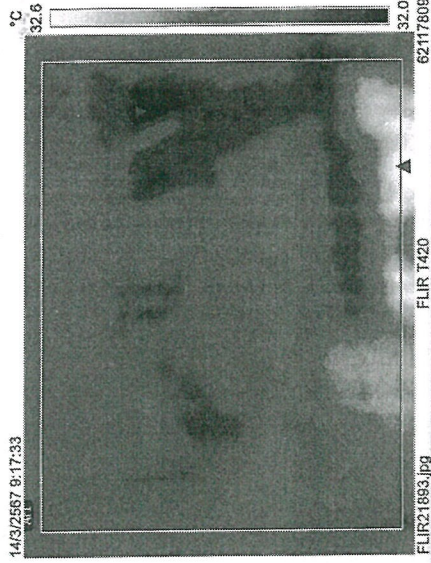
Location :	EE Room
Equipment :	MDB
Detail :	Main Cable and Busbar Connection
Comment :	Normal operation, Not found hotspot
	Should also keep for your future reference

12/48

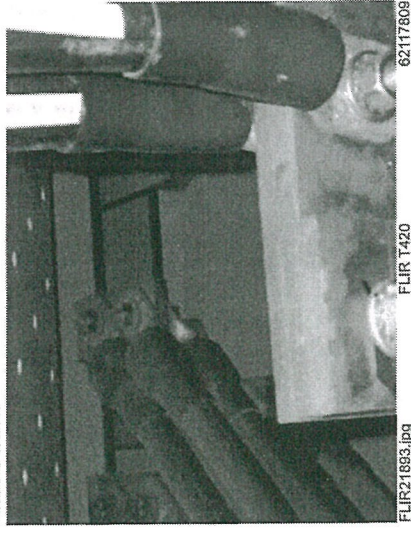
Inspection By : Ekachai R.
14 Mar 2024

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements			°C
Ar1	Max	32.7	
	Min	32.0	
	Average	32.2	
Parameters			
Emissivity		0.92	
Ref. temp.		20 °C	
Geolocation			
Compass		SW	



14/3/2567 9:17:33



Text annotations

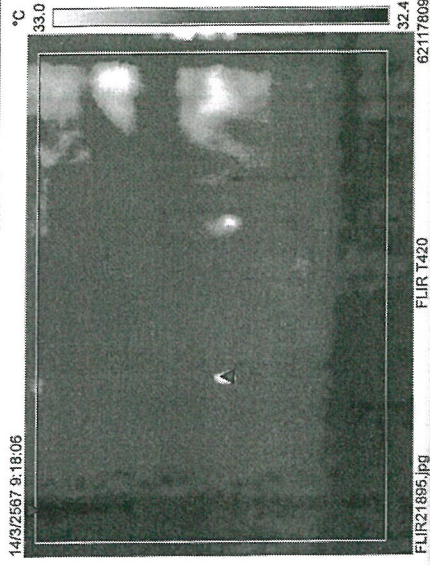
Location :	EE Room
Equipment :	MDB
Detail :	Main Cable and Busbar Connection
Comment :	Normal operation, Not found hotspot
Should also keep for your future reference	

13/48

Inspection By : Ekachai R.
14 Mar 2024

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements			°C
Ar1	Max	33.4	
	Min	32.3	
	Average	32.6	
Parameters			
Emissivity		0.92	
Ref. temp.		20 °C	
Geolocation			
Compass		SW	



14/3/2567 9:18:06



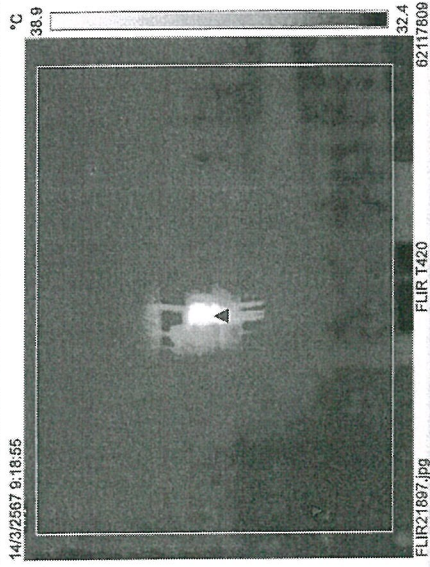
Text annotations

Location :	EE Room
Equipment :	MDB
Detail :	Main Cable and Busbar Connection
Comment :	Normal operation, Not found hotspot
Should also keep for your future reference	

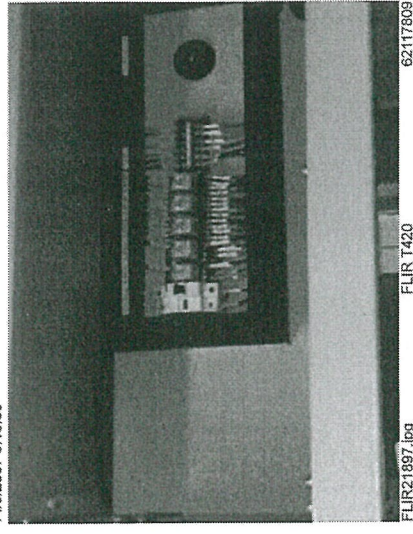
14/48

Inspection By : Ekachai R.
14 Mar 2024

Measurements			°C
Ar1	Max	44.7	20 °C
	Min	32.6	
	Average	33.1	
Parameters			
Emissivity			0.92
Ref. temp.			
Geolocation			
Compass	N		



14/3/2567 9:18:55



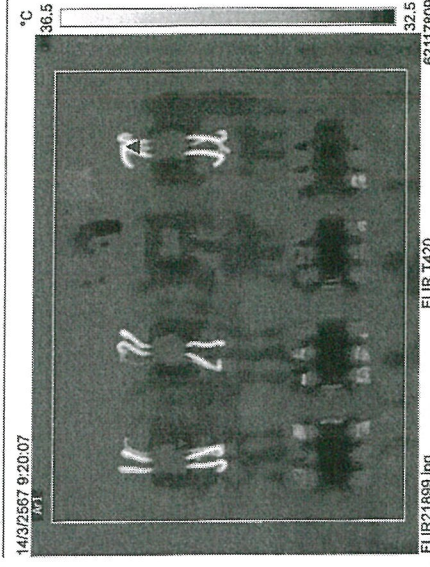
Text annotations

Location :	EE Room
Equipment :	MDB
Detail :	Fuse and Relay Control
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

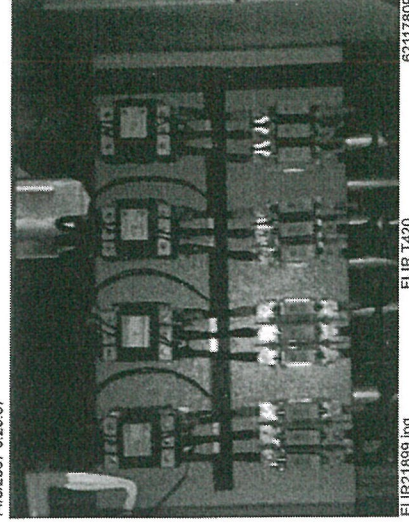
15/48

Inspection By : Ekachai R.
14 Mar 2024

Measurements			°C
Ar1	Max	39.5	
	Min	32.4	
	Average	32.9	
Parameters			
Emissivity	0.92		
Ref. temp.	20 °C		
Geolocation			
Compass	N		



14/3/2567 9:20:07



Text annotations

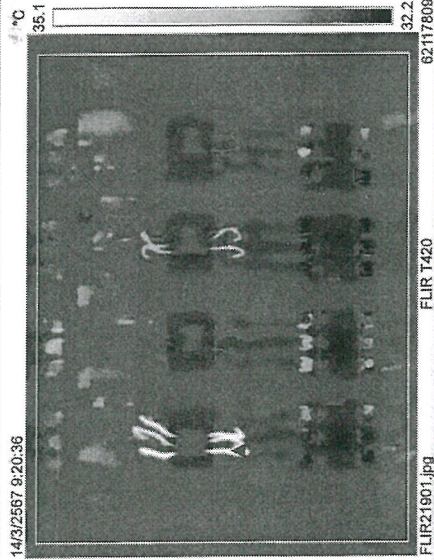
Location :	EE Room
Equipment :	MDB
Detail :	HRC Fuse and Magnetic
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

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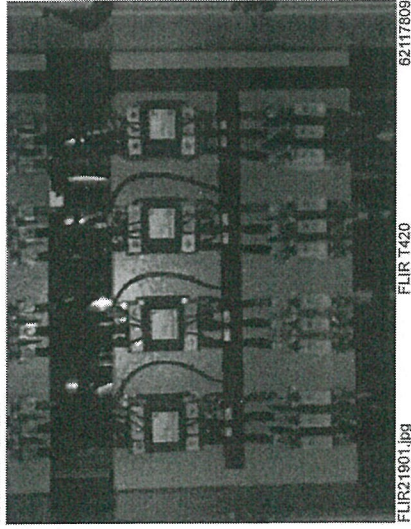
Inspection By : Ekachai R.
14 Mar 2024

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements			°C
At1	Max	39.2	
	Min	31.7	
	Average	32.7	
Parameters			
Emissivity	0.92		20 °C
Ref. temp.			
Geolocation			
Compass	N		



14/3/2567 9:20:36



Text annotations

Location :
Equipment :
Detail :
Comment :

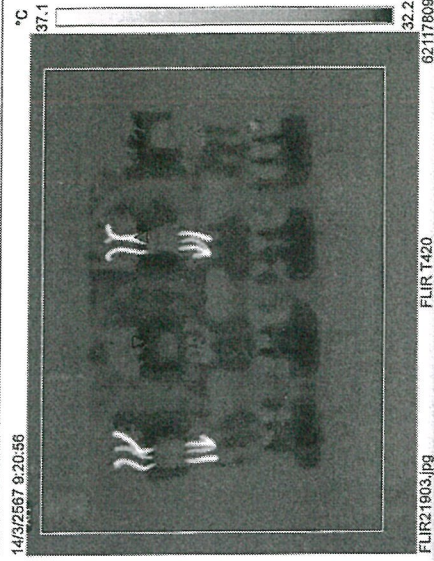
EE Room
MDB
HRC Fuse and Magnetic
Normal operation, Not found hotspot
Should also keep for your future reference

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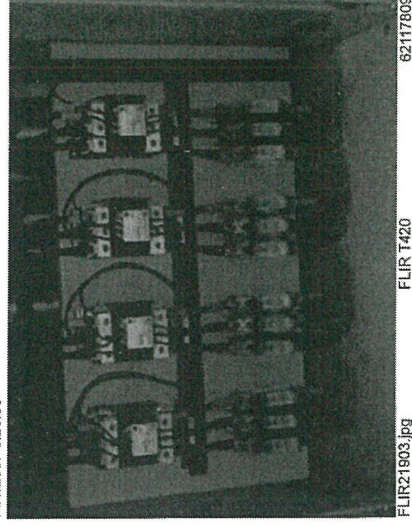
Inspection By : Ekachai R.
14 Mar 2024

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements			°C
At1	Max	42.3	
	Min	32.0	
	Average	32.6	
Parameters			
Emissivity			0.92
Ref. temp.			20 °C
Geolocation			
Compass			N



14/3/2567 9:20:56



Text annotations

Location :
Equipment :
Detail :
Comment :

EE Room
MDB
HRC Fuse and Magnetic
Normal operation, Not found hotspot
Should also keep for your future reference

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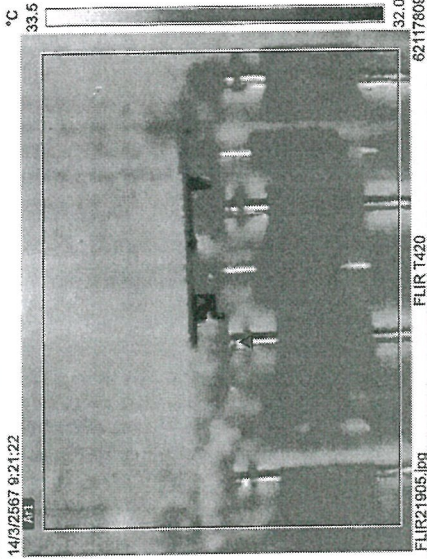
Inspection By : Ekachai R.
14 Mar 2024

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

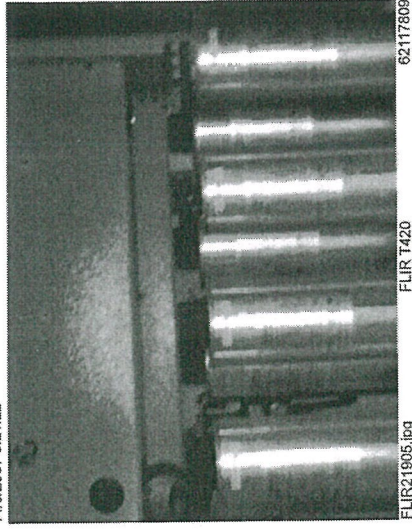
Measurements				°C
Ar1	Max	34.7		
	Min	31.7		
	Average	33.0		

Parameters		°C
Emissivity	0.92	
Ref. temp.	20	°C

Geolocation		
Compass	S	



14/3/2567 9:21:22



Text annotations

Location :	EE Room
Equipment :	MDB
Detail :	Capacitor Bank
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

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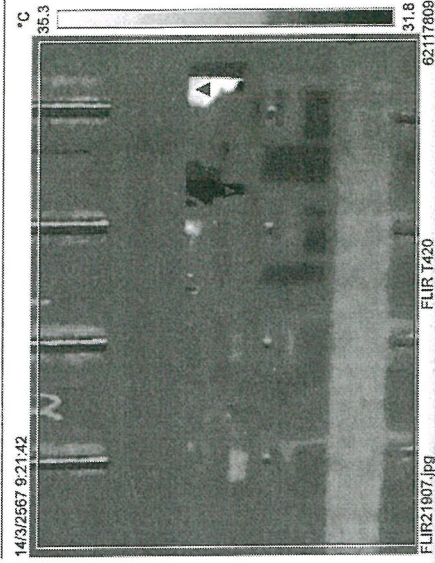
Inspection By : Ekachai R.
14 Mar 2024

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

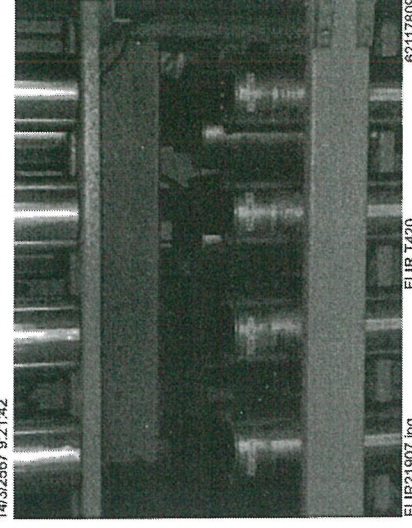
Measurements				°C
Ar1	Max	36.2		
	Min	31.5		
	Average	33.0		

Parameters		°C
Emissivity	0.92	
Ref. temp.	20	°C

Geolocation		
Compass	S	



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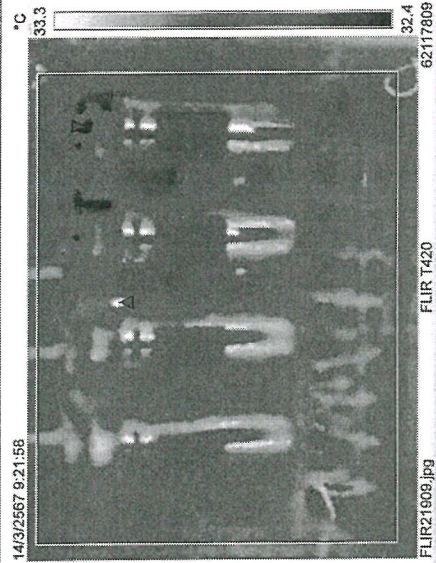
Text annotations

Location :	EE Room
Equipment :	MDB
Detail :	Capacitor Bank
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

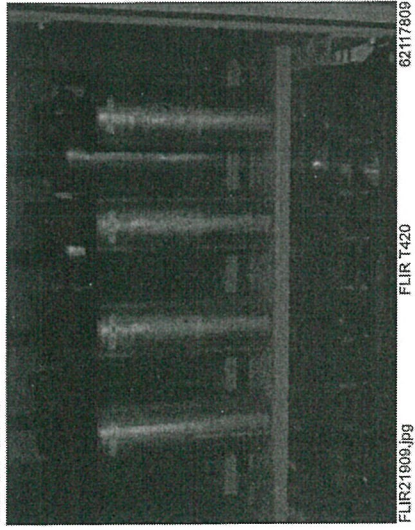
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Inspection By : Ekachai R.
14 Mar 2024

Measurements			°C
Ar1	Max	37.5	Average
	Min	31.6	
	Average	32.8	
Parameters			
Emissivity		0.92	
Ref. temp.		20 °C	
Geolocation			
Compass		S	



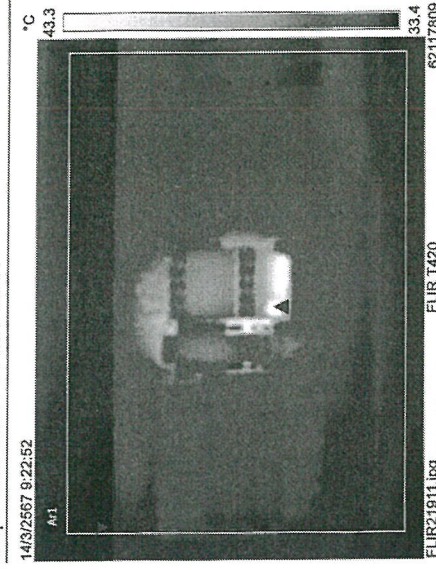
14/3/2567 9:21:58



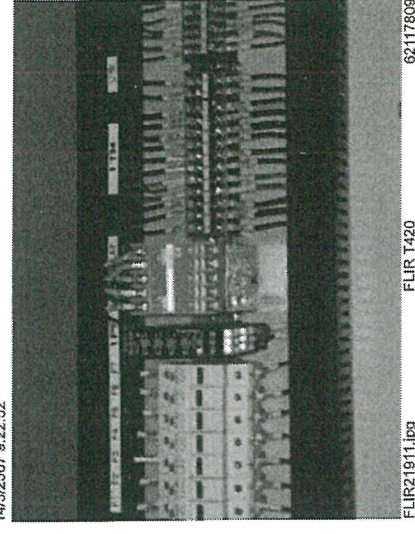
Text annotations

Location :	EE Room
Equipment :	MDB
Detail :	Capacitor Bank
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

Measurements				°C
Ar1	Max	48.4	Average	34.6
	Min	33.3		
Parameters				
Emissivity		0.92		
Ref. temp.		20 °C		
Geolocation				
Compass		N		



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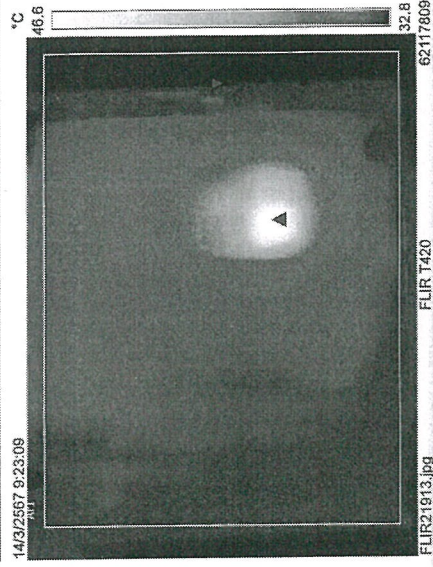


Text annotations

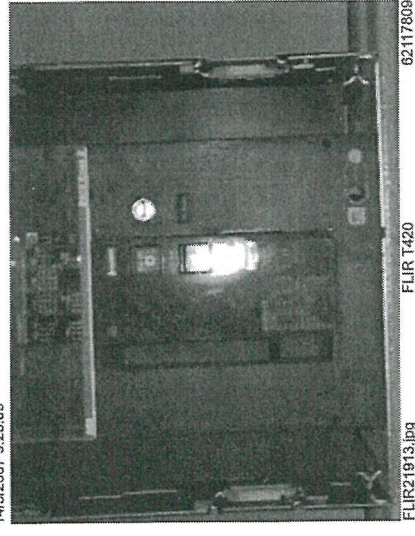
Location :	EE Room
Equipment :	MDB
Detail :	Protection Relay
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements			°C
Ar1	Max	47.7	
	Min	32.7	
	Average	34.1	
Parameters			
Emissivity	0.92		20 °C
Ref. temp.			
Geolocation			
Compass	N		



14/3/2567 9:23:09



Text annotations

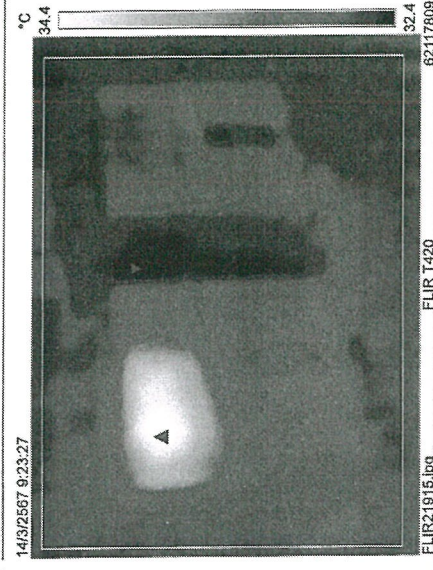
Location :	EE Room
Equipment :	MDB
Detail :	Main ACB
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

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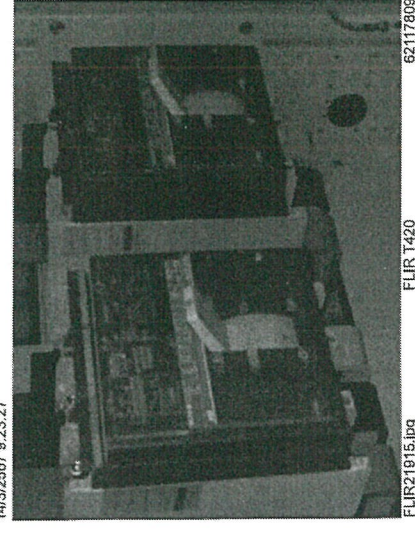
Inspection By : Ekachai R.
14 Mar 2024

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements		°C
Ar1	Max	34.5
	Min	32.4
	Average	32.8
Parameters		
Emissivity	0.92	
Ref. temp.	20 °C	
Geolocation		
Compass	NE	



14/3/2567 9:23:27



Text annotations

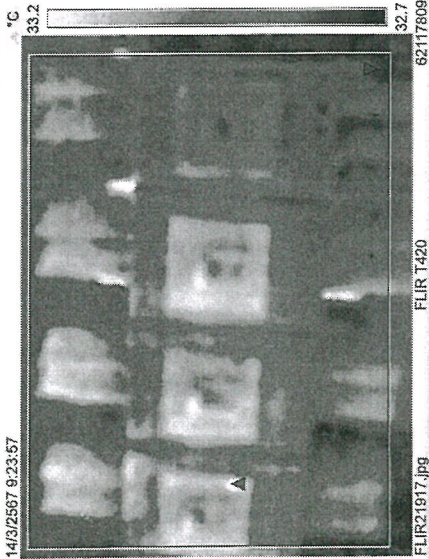
Location :	EE Room
Equipment :	MDB
Detail :	MCCB For Branch
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

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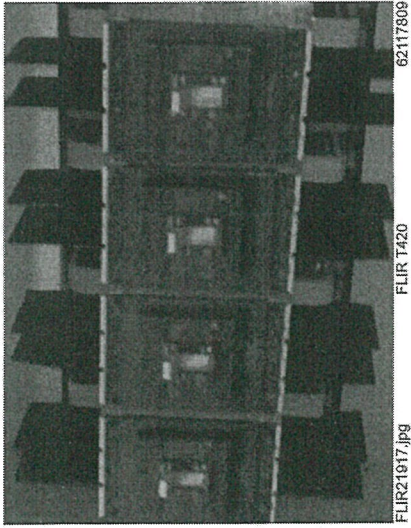
Inspection By : Ekachai R.
14 Mar 2024

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements			°C
Ar1	Max	34.2	
	Min	32.7	
	Average	33.0	
Parameters			
Emissivity		0.92	
Ref. temp.		20 °C	
Geolocation			
Compass		NW	



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Text annotations

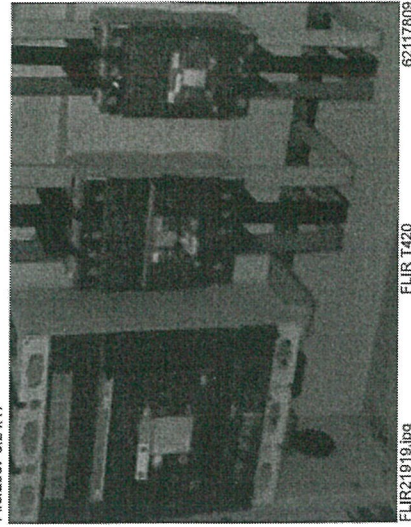
Location :	EE Room
Equipment :	MDB
Detail :	MCCB For Branch
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements			°C
Ar1	Max	33.3	
	Min	32.4	
	Average	32.7	
Parameters			
Emissivity		0.92	
Ref. temp.		20 °C	
Geolocation			
Compass		W	



14/3/2567 9:24:17

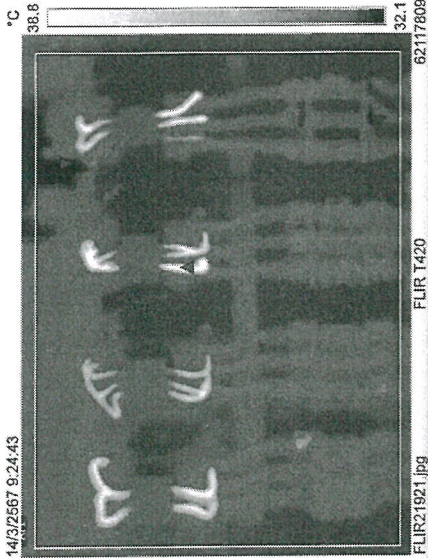


Text annotations

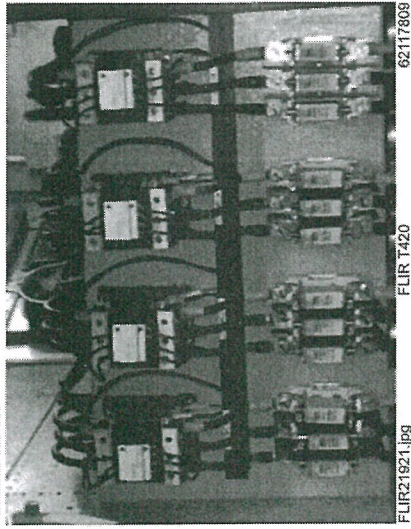
Location :	EE Room
Equipment :	MDB
Detail :	MCCB For Branch
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements				°C	
At1	Max	45.4	Average	32.9	
	Min	32.1			
	Average	32.9			
Parameters				°C	
Emissivity	0.92			20 °C	
Ref. temp.					
Geolocation					
Compass	N				



14/3/2567 9:24:43



Text annotations

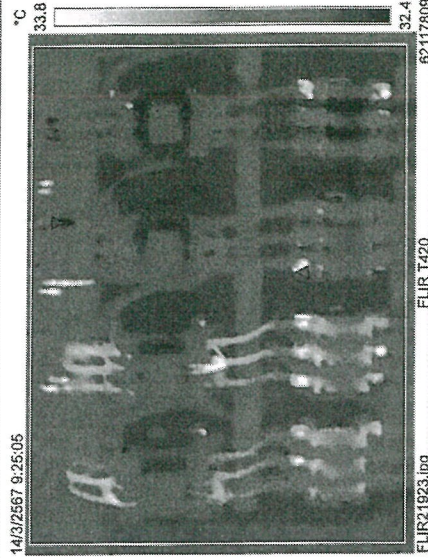
Location :	EE Room
Equipment :	MDB
Detail :	HRC Fuse and Magnetic
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

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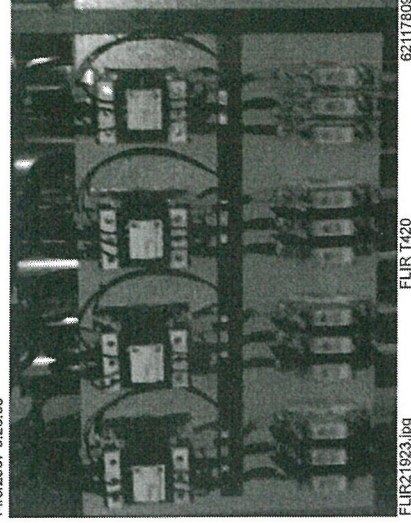
Inspection By : Ekachai R.
14 Mar 2024

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements			°C	
At1	Max	34.4	Average	
	Min	32.1		
	Average	32.7		
Parameters				°C
Emissivity	0.92			20 °C
Ref. temp.	20 °C			
Geolocation				
Compass	N			



14/3/2567 9:25:05



Text annotations

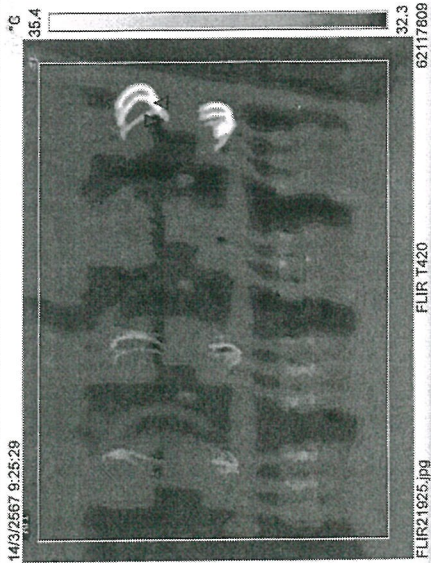
Location :	EE Room
Equipment :	MDB
Detail :	HRC Fuse and Magnetic
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

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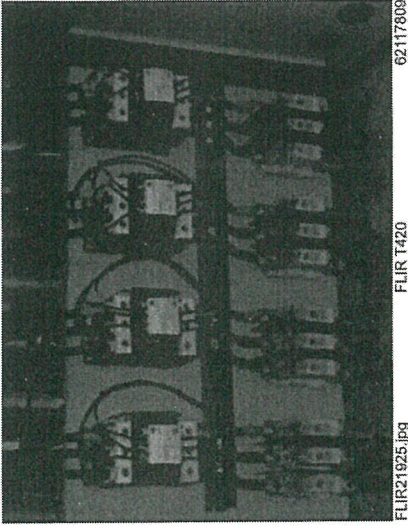
Inspection By : Ekachai R.
14 Mar 2024

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements			°C
Ar1	Max	37.7	
	Min	32.1	
	Average	32.6	
Parameters			
Emissivity			0.92
Ref. temp.			20 °C
Geolocation			
Compass			N



14/3/2567 9:25:29

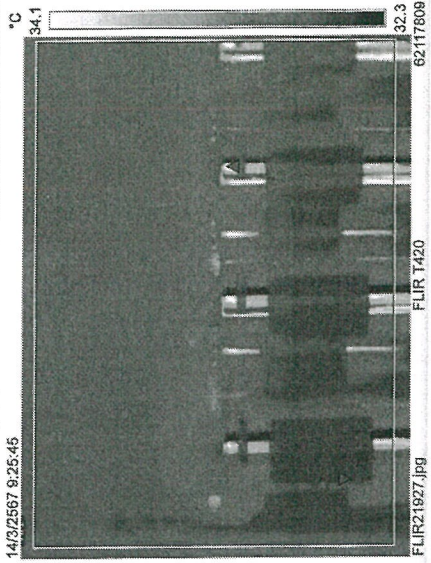


Text annotations

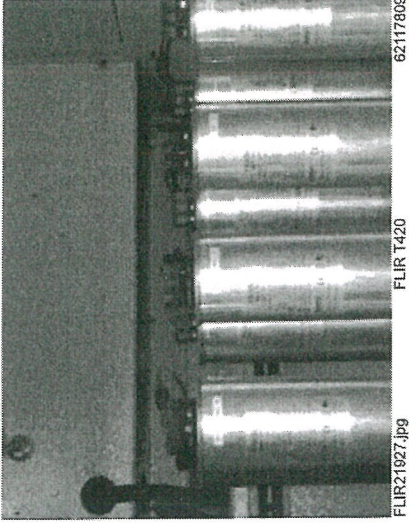
Location :	EE Room
Equipment :	MDB
Detail :	HRC Fuse and Magnetic
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements			°C
Ar1	Max	35.2	
	Min	32.0	
	Average	32.8	
Parameters			
Emissivity			0.92
Ref. temp.			20 °C
Geolocation			
Compass			S



14/3/2567 9:25:45

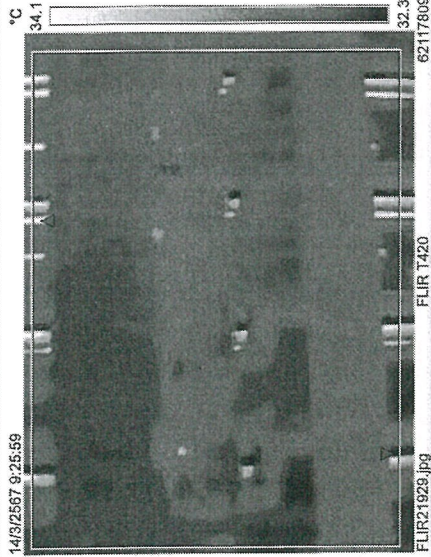


Text annotations

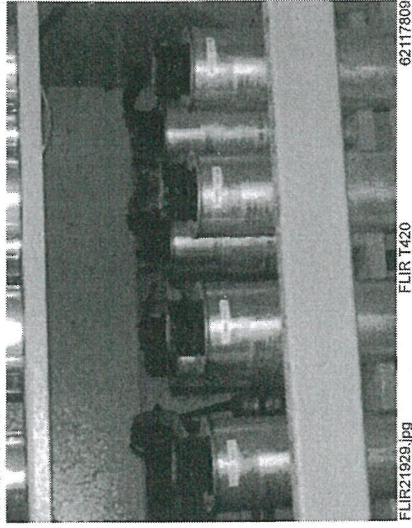
Location :	EE Room
Equipment :	MDB
Detail :	Capacitor Bank
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements			°C
Ar1	Max	35.2	
	Min	31.9	
	Average	32.6	
Parameters			
Emissivity	0.92		
Ref. temp.	20 °C		
Geolocation			
Compass	S		



14/3/2567 9:25:59



Text annotations

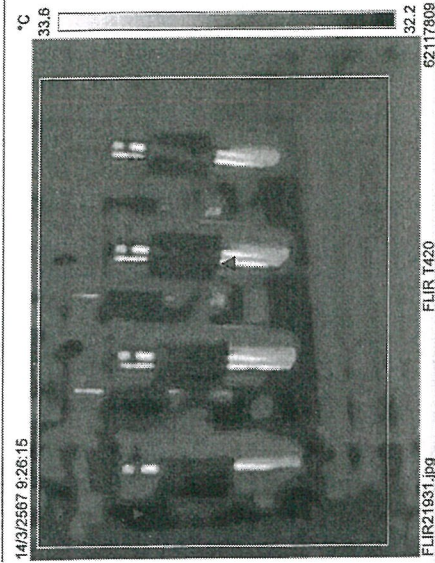
Location :	EE Room
Equipment :	MDB
Detail :	Capacitor Bank
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

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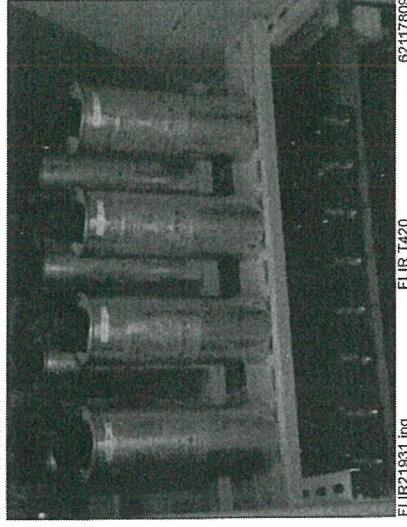
Inspected By : Ekachai R.
14 Mar 2024

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements				°C
Ar1	Max	34.4		
	Min	32.1		
	Average	32.5		
Parameters				
Emissivity	0.92			
Ref. temp.	20 °C			
Geolocation				
Compass	S			



14/3/2567 9:26:15



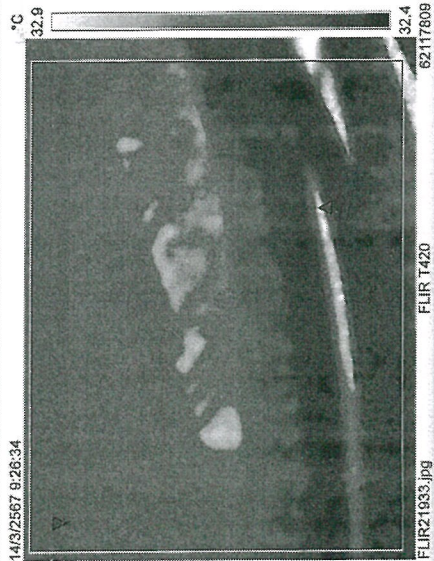
Text annotations

Location :	EE Room
Equipment :	MDB
Detail :	Capacitor Bank
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

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Inspected By : Ekachai R.
14 Mar 2024

Measurements			°C
Ar1	Max	33.0	
	Min	32.3	
	Average	32.5	
Parameters			
Emissivity		0.92	
Ref. temp.		20 °C	
Geolocation			
Compass	SW		



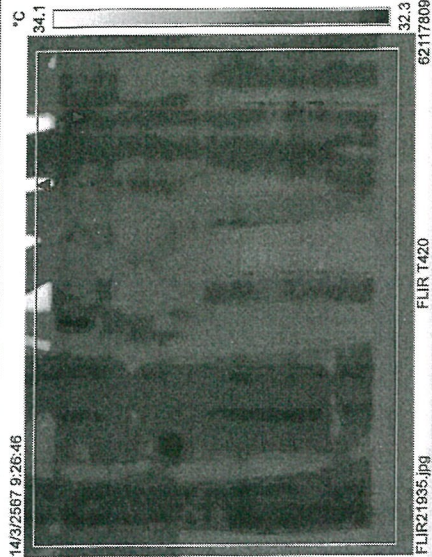
14/3/2567 9:26:34



Text annotations

Location :	EE Room
Equipment :	MDB
Detail :	Main Cable and Busbar Connection
Comment :	Normal operation, Not found hotspot
Should also keep for your future reference	

Measurements			°C
Ar1	Max	34.8	
	Min	32.0	
	Average	32.5	
Parameters			
Emissivity		0.92	
Ref. temp.		20 °C	
Geolocation			
Compass	SE		



14/3/2567 9:26:46



Text annotations

Location :	EE Room
Equipment :	MDB
Detail :	Main Cable and Busbar Connection
Comment :	Normal operation, Not found hotspot
Should also keep for your future reference	

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements

AT1	Max	32.8
	Min	32.3
	Average	32.5

Parameters

Emissivity	0.92
Ref. temp.	20 °C

Geolocation

Compass	NE
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14/3/2567 9:26:56
FLIR T420



FLIR21937.jpg 62117809

14/3/2567 9:26:56



FLIR21937.jpg 62117809

Text annotations

Location :	EE Room
Equipment :	MDB
Detail :	Main Cable and Busbar Connection
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements

AT1	Max	54.4
	Min	34.0
	Average	35.1

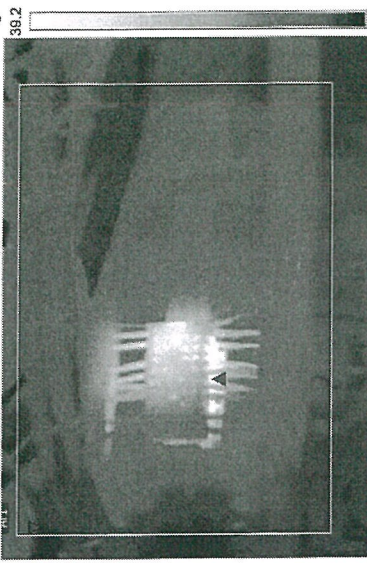
Parameters

Emissivity	0.92
Ref. temp.	20 °C

Geolocation

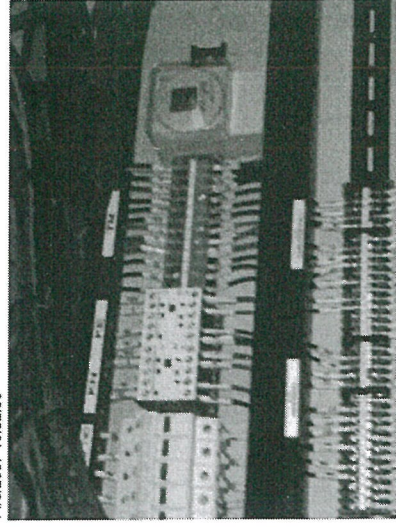
Compass	SE
---------	----

14/3/2567 10:32:36
FLIR T420



FLIR21939.jpg 62117809

14/3/2567 10:32:36



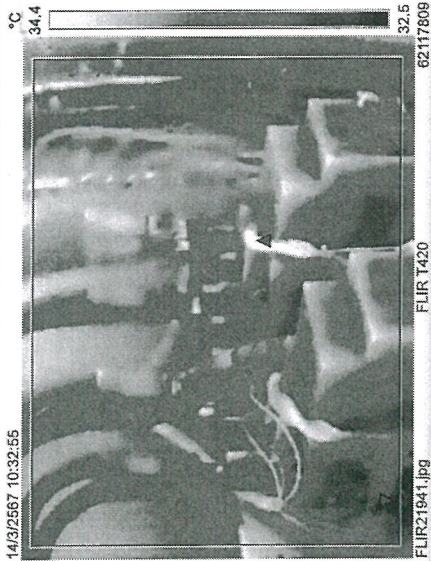
FLIR21939.jpg 62117809

Text annotations

Location :	EE Room
Equipment :	MDB
Detail :	Fuse and Relay Control
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements				°C
Air1	Max	34.6		
	Min	32.3		
	Average	33.5		
Parameters				
Emissivity		0.92		
Ref. temp.		20 °C		
Geolocation				
Compass		S		



14/3/2567 10:32:55



Text annotations

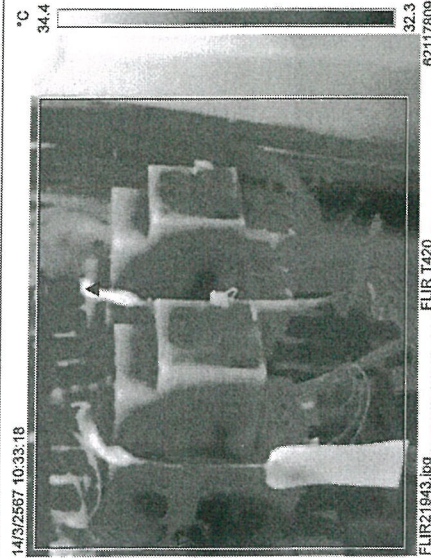
Location :	EE Room
Equipment :	MDB
Detail :	ATS Normal and Emergency
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

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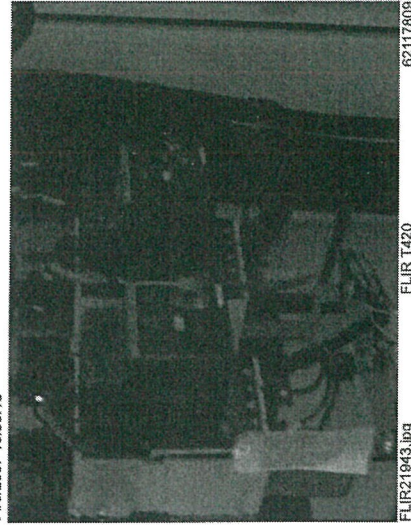
Inspection By : Ekachai R.
14 Mar 2024

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements				°C
Air1	Max	34.5		
	Min	32.0		
	Average	33.2		
Parameters				
Emissivity		0.92		
Ref. temp.		20 °C		
Geolocation				
Compass		SW		



14/3/2567 10:33:18



Text annotations

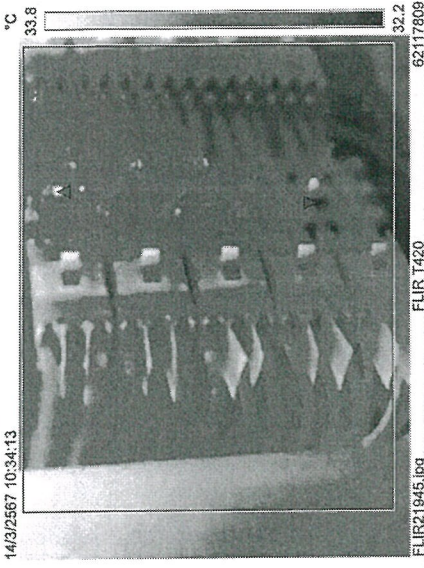
Location :	EE Room
Equipment :	MDB
Detail :	ATS Normal and Emergency
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

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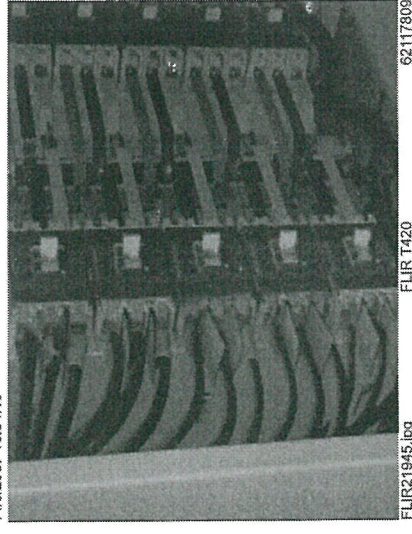
Inspection By : Ekachai R.
14 Mar 2024

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements			°C
Ar1	Max	34.4	
	Min	32.0	
	Average	32.9	
Parameters			
Emissivity		0.92	
Ref. temp.		20 °C	
Geolocation			
Compass		SW	



14/3/2567 10:34:13

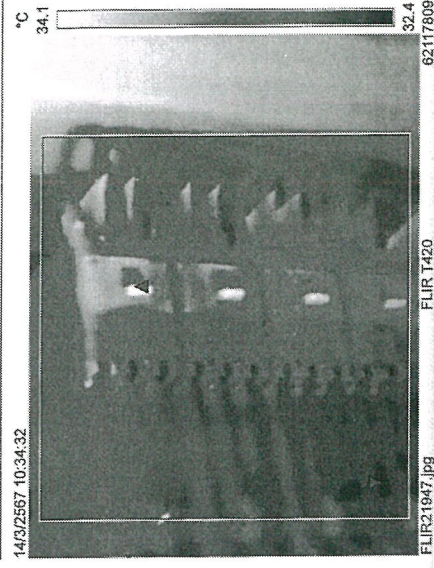


Text annotations

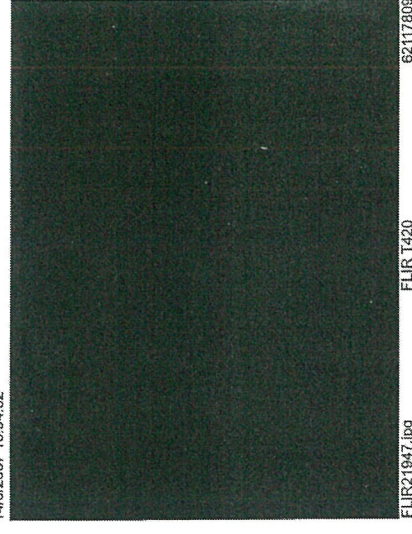
Location :	EE Room
Equipment :	MDB
Detail :	MCCB For Branch
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements			°C
Ar1	Max	34.3	
	Min	32.1	
	Average	32.9	
Parameters			
Emissivity		0.92	
Ref. temp.		20 °C	
Geolocation			S
Compass			



14/3/2567 10:34:32



Text annotations

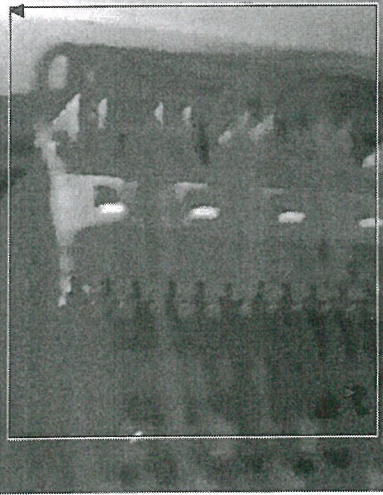
Location :	EE Room
Equipment :	MDB
Detail :	MCCB For Branch
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements			°C
Ar1	Max	34.5	
	Min	32.1	
	Average	33.1	
Parameters			
Emissivity		0.92	
Ref. temp.		20 °C	
Geolocation			
Compass		S	

14/3/2567 10:34:40

°C

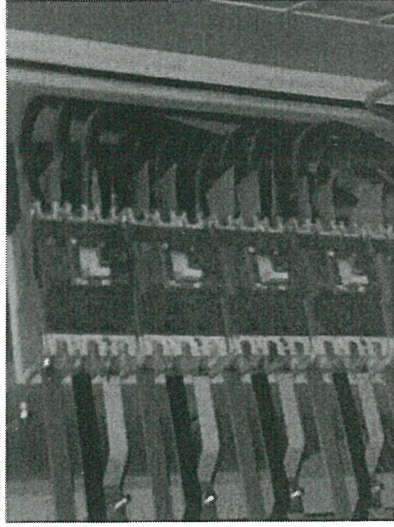


FLIR T420

FLIR T420

62117809

14/3/2567 10:34:40



FLIR T420

FLIR T420

62117809

Text annotations

Location :	EE Room
Equipment :	MDB
Detail :	MCCB For Branch
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

41/48

Inspection By : Ekachai R.
14 Mar 2024

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements			°C
Ar1	Max	51.9	
	Min	34.5	
	Average	35.8	
Parameters			
Emissivity		0.92	
Ref. temp.		20 °C	
Geolocation			
Compass		S	

14/3/2567 10:36:57

°C

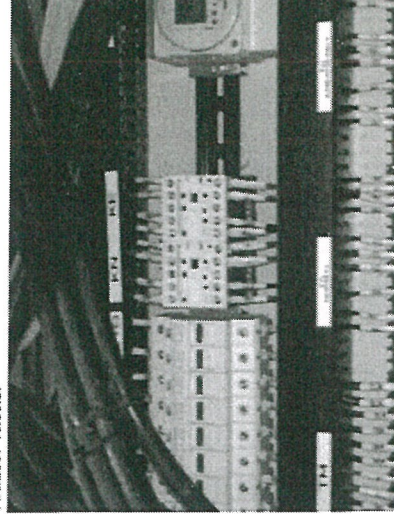


FLIR T420

FLIR T420

62117809

14/3/2567 10:36:57



FLIR T420

FLIR T420

62117809


Text annotations

Location :	EE Room
Equipment :	MDB
Detail :	Fuse and Relay Control
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

42/48

Inspection By : Ekachai R.
14 Mar 2024

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements			°C
Ar1	Max	35.6	
	Min	33.4	
	Average	34.6	
Parameters			
Emissivity			0.92
Ref. temp.			20 °C
Geolocation			
Compass			SW

14/3/2567 10:37:12

°C



FLIR21953.jpg

FLIR T420

62117809

14/3/2567 10:37:12



FLIR21953.jpg

FLIR T420

62117809

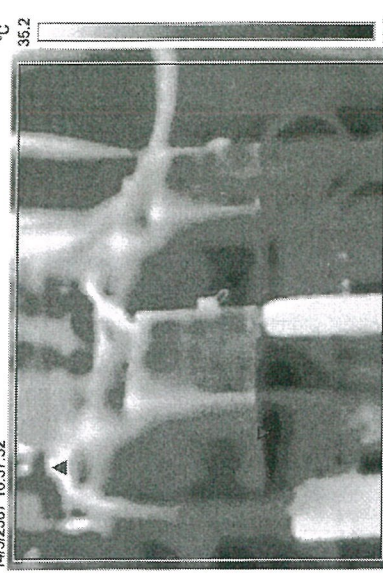
Text annotations

Location :	EE Room
Equipment :	MDB
Detail :	ATS Normal and Emergency
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

4348

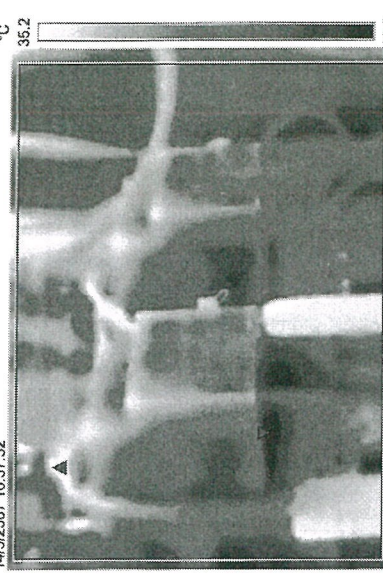
InspeC By : Ekachai R.
14 Mar 2024

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements			°C
Ar1	Max	35.7	
	Min	33.3	
	Average	34.4	
Parameters			
Emissivity			0.92
Ref. temp.			20 °C
Geolocation			
Compass			SW

14/3/2567 10:37:32

°C

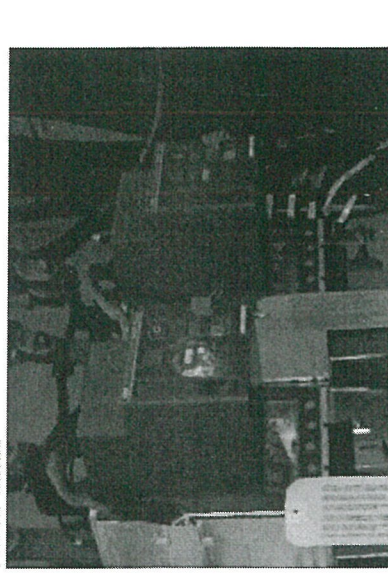


FLIR21955.jpg

FLIR T420

62117809

14/3/2567 10:37:32



FLIR21955.jpg

FLIR T420

62117809

Text annotations

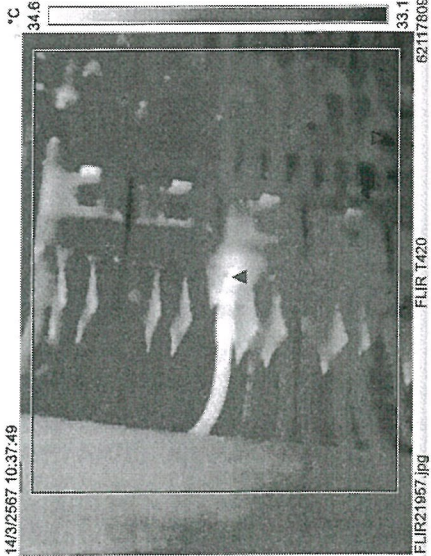
Location :	EE Room
Equipment :	MDB
Detail :	ATS Normal and Emergency
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

4448

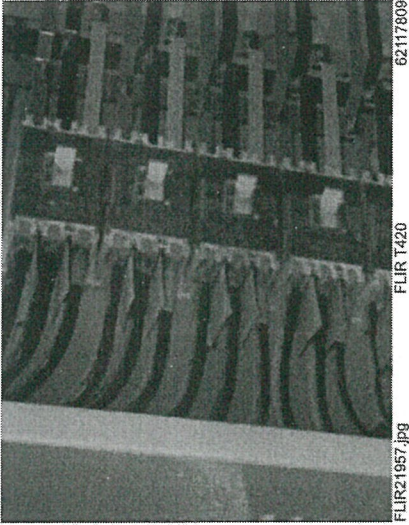
InspeC By : Ekachai R.
14 Mar 2024

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements		°C
Ar1	Max	34.9
	Min	32.9
	Average	33.8
Parameters		
Emissivity		0.92
Ref. temp.		20 °C
Geolocation		
Compass		SW



14/3/2567 10:37:49

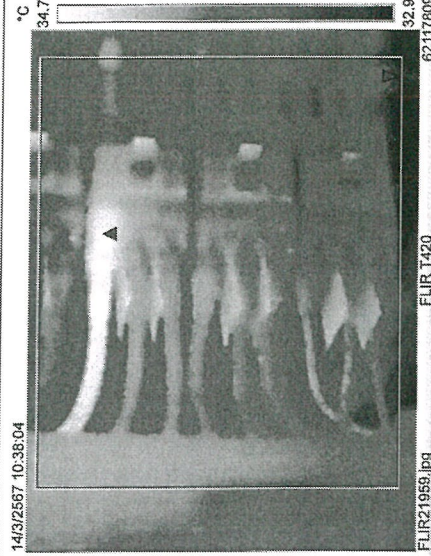


Text annotations

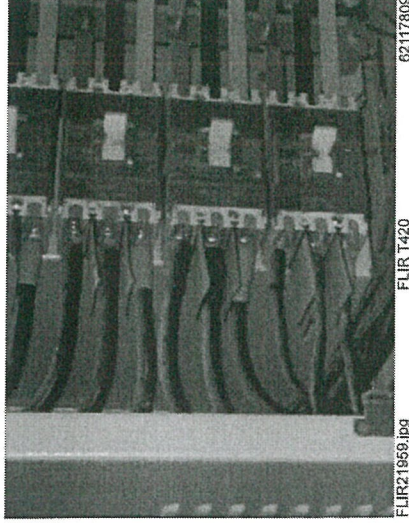
Location :	EE Room
Equipment :	MDB
Detail :	MCCB For Branch
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements		°C
Ar1	Max	35.0
	Min	32.7
	Average	33.8
Parameters		
Emissivity		0.92
Ref. temp.		20 °C
Geolocation		
Compass		SW




14/3/2567 10:38:04



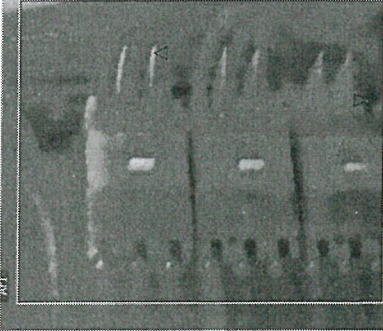
Text annotations

Location :	EE Room
Equipment :	MDB
Detail :	MCCB For Branch
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements			°C
Ar1	Max	34.7	
	Min	33.0	
	Average	33.8	
Parameters			
Emissivity		0.92	
Ref. temp.		20 °C	
Geolocation			
Compass		SW	

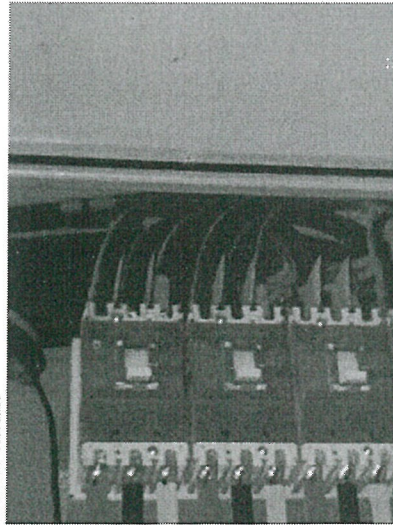
14/3/2567 10:38:21



FLIR21961.jpg

FLIR T420

14/3/2567 10:38:21




FLIR21961.jpg

FLIR T420

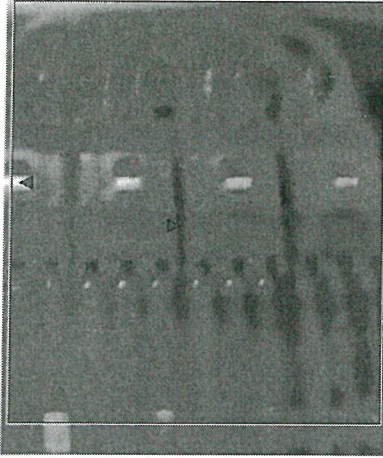
Text annotations

Location :	EE Room
Equipment :	MDB
Detail :	MCCB For Branch
Comment :	Normal operation, Not found hotspot Should also keep for your future reference

Project Name : Baan Mai Khao - MDB PM2024
Location : Phuket
Subject : Infrared Thermography Scan
Inspection date : 14 Mar 2024

Measurements			°C
Ar1	Max	34.7	
	Min	32.9	
	Average	33.6	
Parameters			
Emissivity		0.92	
Ref. temp.		20 °C	
Geolocation			
Compass		SW	

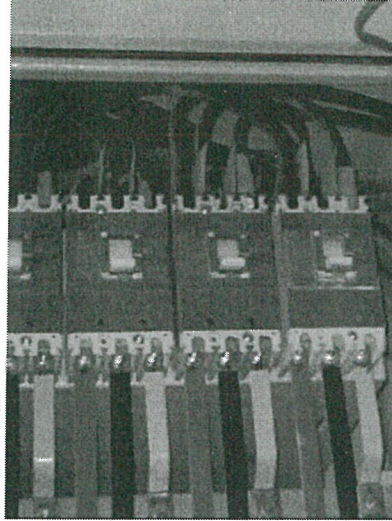
14/3/2567 10:38:32



FLIR21963.jpg

FLIR T420

14/3/2567 10:38:32



FLIR21963.jpg

FLIR T420

Text annotations

Location :	EE Room
Equipment :	MDB
Detail :	MCCB For Branch
Comment :	Normal operation, Not found hotspot Should also keep for your future reference