

**PDM360 INC.**

A graphic consisting of three overlapping circles in shades of blue, with the text 'PdM360 Inc.' centered in the innermost circle. A thin blue line extends from the left side of the circles towards the top-left corner of the page.

**PdM360  
Inc.**

# **2022 IR-THERMOGRAPHY INSPECTION XYZ ENERGY ANNUAL REPORT**

**ELECTRICAL SUB-STATION – TORONTO PLANT**

**PRESENTED BY: AHMAD ASSI  
RELIABILITY ENGINEER / LEVEL III IR-THERMOGRAPHER**

## 2022 IR-THERMOGRAPHY INSPECTION    XYZ ENERGY ANNUAL REPORT

The annual Thermography scan PM for XYZ Energy – Torono Plant was completed on January 18<sup>th</sup>, 2022. Below is the summary of the report of issues / findings:

Equipment Name / Location	Code	Problem Description	Recommendation
Main Electrical Room MCC #5 Contactor #12	3	IR image #53 shows fuse in box #3 has higher temperature compared to other fuses	Replace fuse and ensure all three fuses are of the similar manufacturer / type.
Main Electrical Room MCC #5 Contactor #28	3	IR image #68 shows fuse in box #1 has higher temperature compared to other fuses	Replace fuse.
Main Electrical Room MCC #1 Contactor #24	3	IR image #88 shows fuse in box #1 has higher temperature compared to other fuses	Replace fuse.

### PRIORITY CODING:

Temperature Rise	Criticality Code	Code Description
>50 °C	1	Critical stage of overheating. Immediate repair action is required.
21 °C ≤ 50 °C	2	Caution stage of overheating. Repair as soon as possible.
11 °C ≤ 20 °C	3	Initial stage of overheating. Watch for a trend during next scheduled testing.
≤ 10 °C	4	Normal. No service action is required.

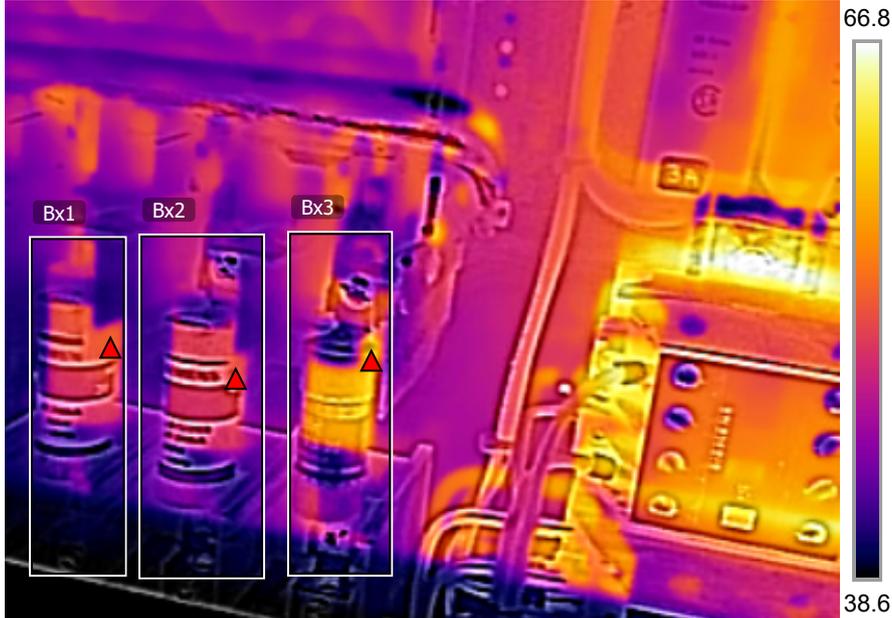


# IR-Thermography Report

## Emerald Engery - Brampton Plant

### January 18th, 2022

2022-01-19 10:40:26 PM



### Measurements

Bx1	Max	48.6 °C
Bx2	Max	47.9 °C
Bx3	Max	56.0 °C

### Parameters

Emissivity	0.95
Refl. temp.	20 °C

### Note

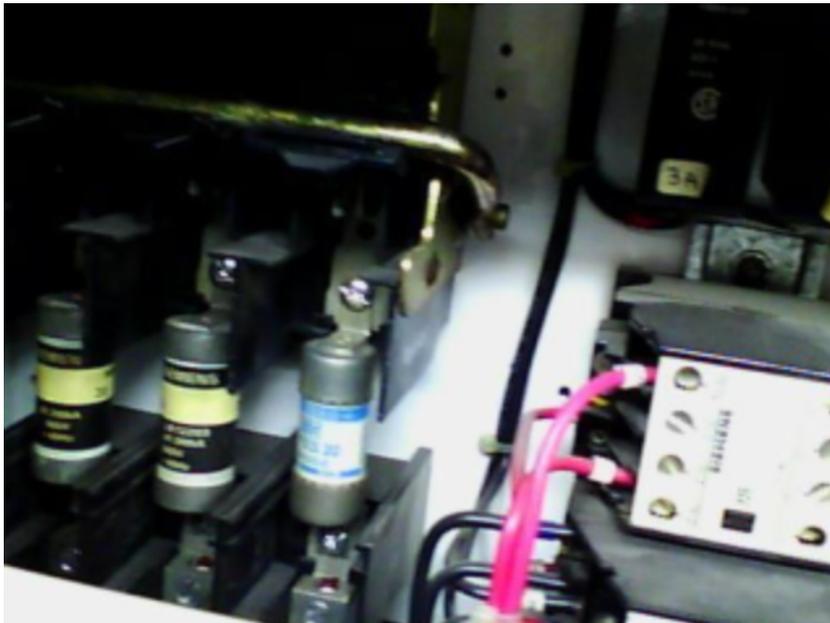
Fuse in box #3 is showing higher temperature compared to other fuses. We suspect this is due to wrong or different fuze mfg. We recommend replacing the fuse and ensure all fuses are of same mfg.

FLIR0053.jpg

FLIR E4 Wifi

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FLIR0053.jpg

FLIR E4 Wifi

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### Text annotations

Main Room - MCC #5

Contactor #12

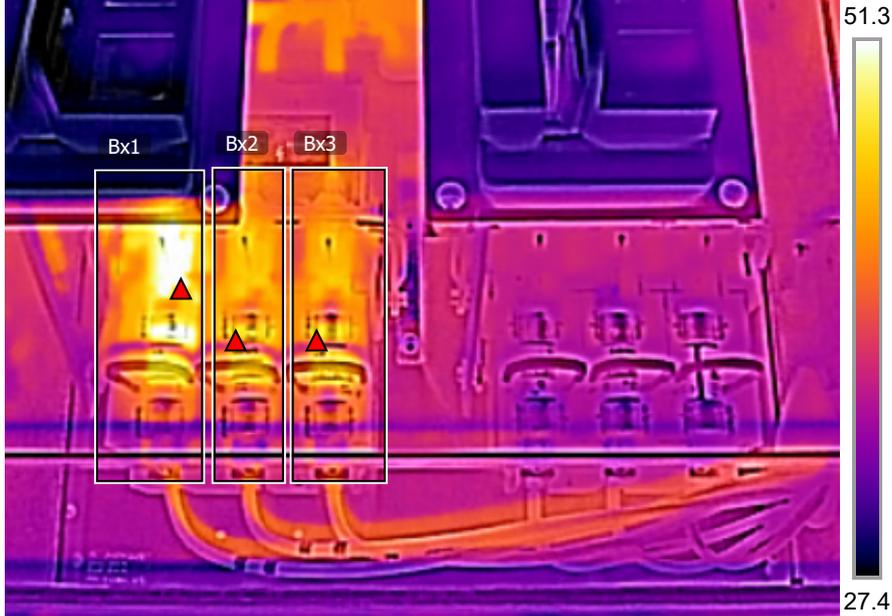


# IR-Thermography Report

## Emerald Engery - Brampton Plant

January 18th, 2022

2022-01-19 10:47:58 PM



### Measurements

Bx1	Max	59.6 °C
Bx2	Max	42.2 °C
Bx3	Max	41.8 °C

### Parameters

Emissivity	0.95
Refl. temp.	20 °C

### Note

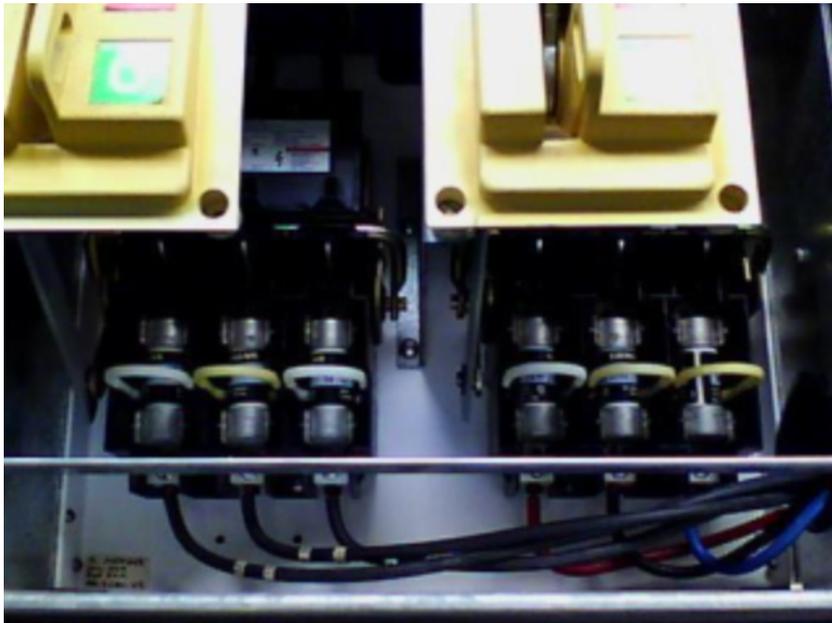
Left fuse in Bx #1 is showing higher temperature than other fuses. Fuse replacement is advised.

FLIR0068.jpg

FLIR E4 Wifi

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FLIR0068.jpg

FLIR E4 Wifi

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### Text annotations

Main Room - MCC #5

Contactor #28



# IR-Thermography Report

## Emerald Engery - Brampton Plant

### January 18th, 2022

2022-01-19 10:59:47 PM



### Measurements

Bx1	Max	64.8 °C
Bx2	Max	51.3 °C
Bx3	Max	55.0 °C

### Parameters

Emissivity	0.95
Refl. temp.	20 °C

### Note

Fuse in box 1 is showing higher temperature compared to the other fuses. Fuse replacement is recommended.

FLIR0088.jpg

FLIR E4 Wifi

639122879

2022-01-19 10:59:47 PM



FLIR0088.jpg

FLIR E4 Wifi

639122879

### Text annotations

Main Room - MCC #1

Contactor #24