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XYZ ENERGY ANNUAL REPORT

ELECTRICAL SUB-STATION – TORONTO PLANT

PRESENTED BY: AHMAD ASSI

RELIABILITY ENGINEER / LEVEL III IR-THERMOGRAPHER

IR-THERMOGRAPHY INSPECTION ANNUAL REPORT

The annual Thermography scan PM for XYZ Toronto Plant Electrical Sub-station was completed on June 26th, 2020. Below is the summary of the report findings:

Equipment	Code	Problem Description	Recommendation
Transformer Unit #1	4	No issues found	Watch for a trend during next testing interval
Transformer Unit #2	4	No issues found	Watch for a trend during next testing interval
Transformer Unit #3	4	No issues found	Watch for a trend during next testing interval
Electrical Tower #1	4	No issues found	Watch for a trend during next testing interval
Electrical Tower #2	4	No issues found	Watch for a trend during next testing interval

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

Electrical SubStation - XYZ Plant

June 2020

2000-05-13 6:25:18 PM



Measurements

Bx1	Max	45.3 °C
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Parameters

Emissivity	0.95
Refl. temp.	20 °C

Note

Normal

FLIR0283.jpg

FLIR T540

79302216

2000-05-13 6:25:18 PM



FLIR0283.jpg

FLIR T540

79302216

Text annotations

SubStation -XYZ Plant

Unit #2

IR-Thermography Report

Electrical SubStation - XYZ Plant

June 2020

2000-05-13 6:33:35 PM



Measurements

Bx1	Max	32.6 °C
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Parameters

Emissivity	0.95
Refl. temp.	20 °C

Note

Normal

FLIR0289.jpg

FLIR T540

79302216

2000-05-13 6:33:35 PM



FLIR0289.jpg

FLIR T540

79302216

Text annotations

SubStation - XYZ Plant

Unit #3

IR-Thermography Report

Electrical SubStation - XYZ Plant

June 2020

2000-05-13 6:35:01 PM



Measurements

Bx1	Max	38.4 °C
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Parameters

Emissivity	0.95
Refl. temp.	20 °C

Note

Normal

2000-05-13 6:35:01 PM



Text annotations

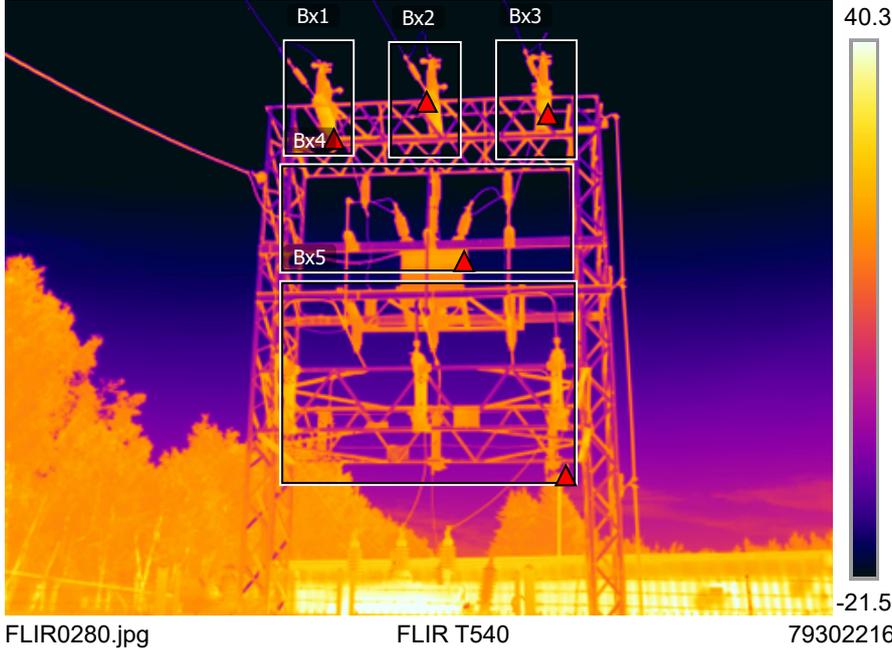
SubStation -XYZ Plant	Unit #1
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IR-Thermography Report

Electrical SubStation - XYZ Plant

June 2020

2000-05-13 6:20:51 PM



Measurements

Bx1	Max	33.0 °C
Bx2	Max	30.5 °C
Bx3	Max	29.6 °C
Bx4	Max	28.5 °C
Bx5	Max	30.9 °C

Parameters

Emissivity	0.95
Refl. temp.	20 °C

Note

Normal

FLIR0280.jpg

FLIR T540

79302216

2000-05-13 6:20:51 PM



FLIR0280.jpg

FLIR T540

79302216

Text annotations

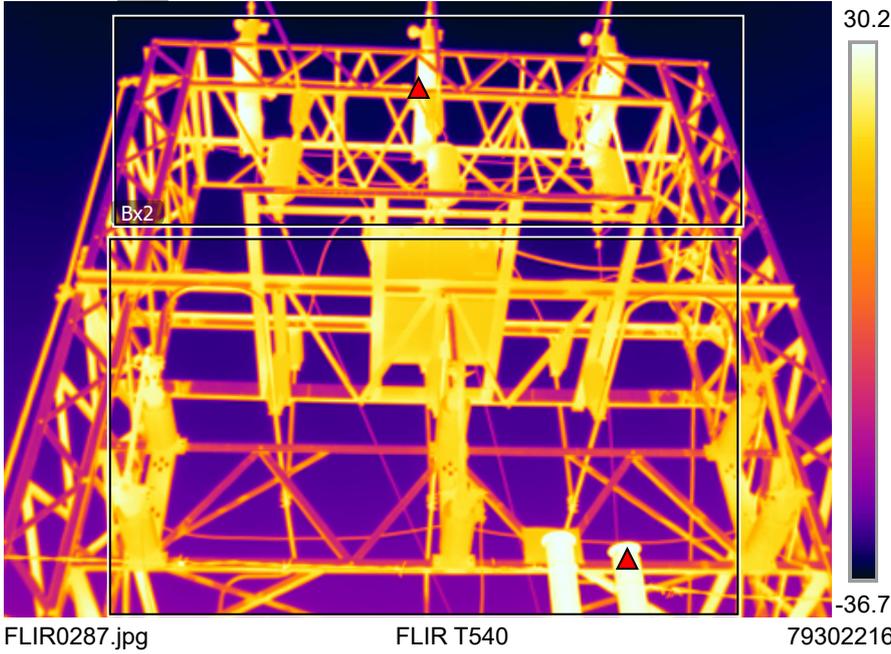
Lunchroom - Fuse Panel (outside Hall)	P-1
Electrician Office	
Laundry Room	

IR-Thermography Report

Electrical SubStation -XYZ Plant

June 2020

2000-05-13 6:32:30 PM



Measurements

Bx1	Max	33.6 °C
Bx2	Max	32.2 °C

Parameters

Emissivity	0.95
Refl. temp.	20 °C

Note

Normal

2000-05-13 6:32:30 PM



Text annotations

SubStation - XYZ Plant

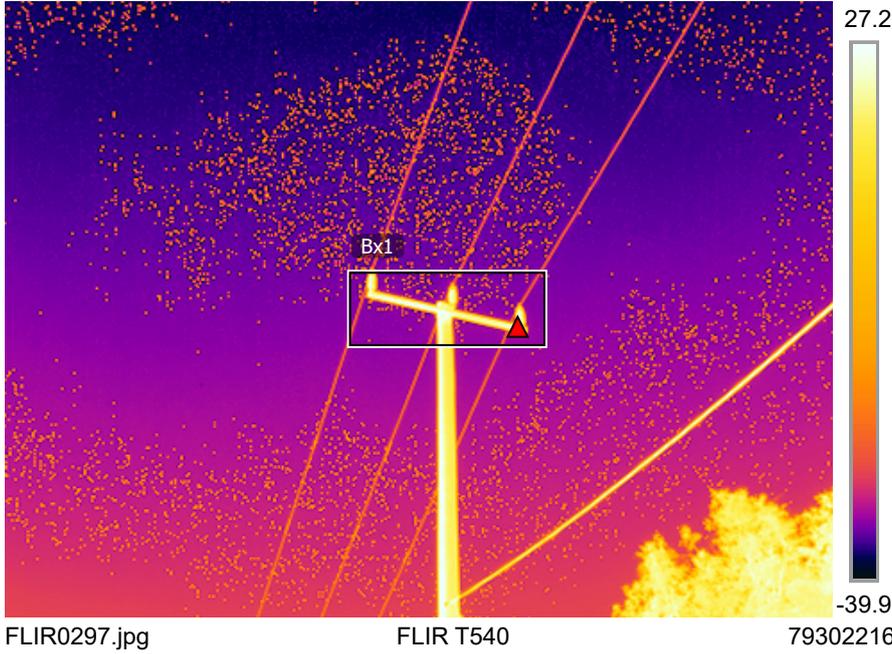
Tower #1

IR-Thermography Report

Electrical SubStation - XYZ Plant

June 2020

2000-05-13 6:49:25 PM



Measurements

Bx1	Max	29.6 °C
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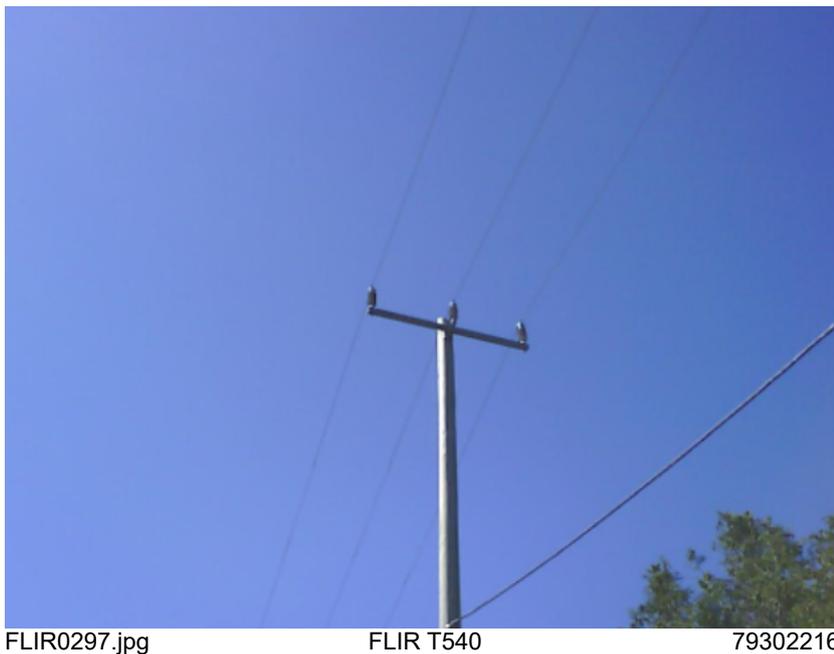
Parameters

Emissivity	0.95
Refl. temp.	20 °C

Note

Normal

2000-05-13 6:49:25 PM



Text annotations

SubStation - XYZ Plant	Tower #2
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