



## Infrared Thermography Report

### *Example*

An Infrared thermography survey was recently conducted at the XXXX facility. This report highlights any equipment with identified faults or that requires repair work. During the survey completed on x/xx/20xx, we discovered 3 items that could be an immediate detriment to equipment and 4 items that warrant further attention of 128 assets scanned.

The first section: **Asset List** – lists the equipment, down to the component level, and the operational status of each component. If an issue is found to be present, we have highlighted the status of the panel with “**Fault Identified**”.

The second section: **Problem Detail Report** details each problem and suggests a corrective task. The assigned Predictive # can be found on the upper right-hand corner of each problem page. Note: If no problems are identified, there will be no Problem Detail Reports.

The third section: **Follow-up Report** details the labor and follow-up data associated with each problem that has been repaired. Follow-up Reports will only be included if repairs have been made

Informing management as to the timeline of any scheduled repairs and the findings upon completion of such repairs will increase the reliability and effectiveness of the inspection program. **Repairs should only be undertaken by a licensed electrician and follow proper LO/TO protocol.**

## XXXX - Shredder Assets Example List

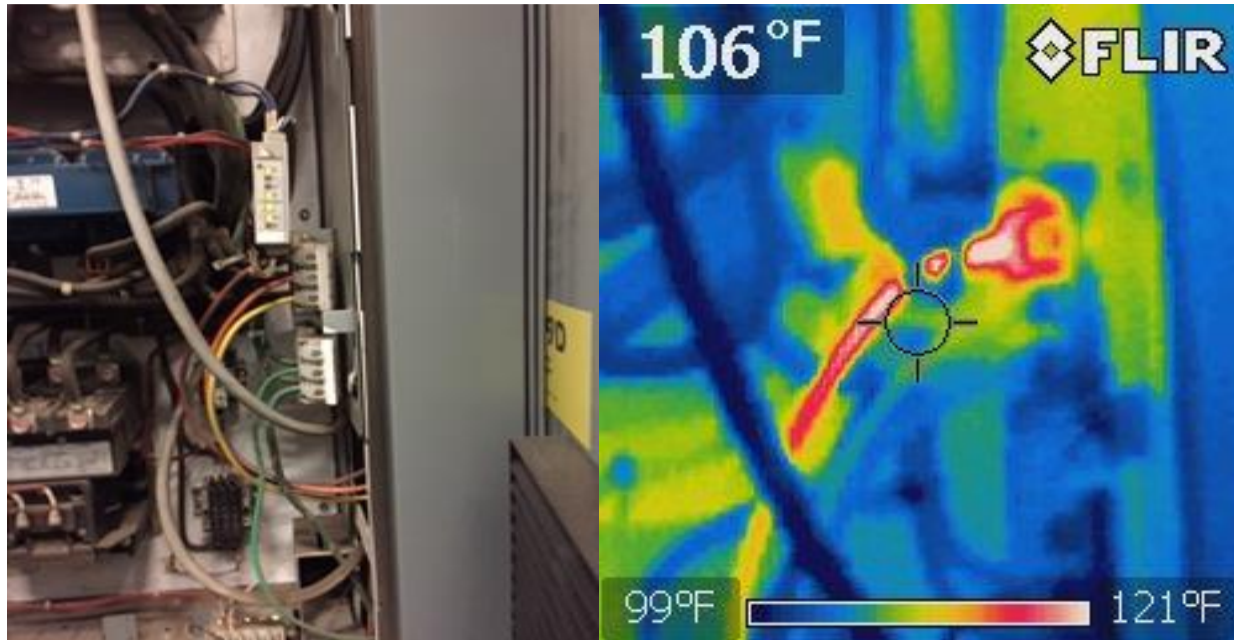
Room/Area	Group/ PNL #	Description	Survey Date	Results
PSB1	WELD1	Welding Plug #1 40A CB	2/12/16	Acceptable
PSB1	MLTG	Motor Platform lights 20A CB	2/12/16	Acceptable
PSB1	HYDS	Hydro Smack 60A CB	2/12/16	Acceptable
PSB1	LQ-RHE	Liquid Rheostat 20A CB	2/12/16	Acceptable
PSB1	FOP	Front Office Panel 100A CB	2/12/16	Acceptable
PSB1	LRP	480V Locker room Pnl 125A CB	2/12/16	Acceptable
PSB1	BDSP	Bio digester sub panel 60A CB	2/12/16	Acceptable
PSB1	WELD2	Welding Plug #2 40A CB	2/12/16	Acceptable
PSB1	BCOMP	Comp 100A CB	2/12/16	Acceptable
PSB1	?	??? 200A CB	2/12/16	Acceptable
PSB1	SHSPK	Shipping Belt Sprinkler 30A CB	2/12/16	Acceptable
PSB1	AHYD	Aux Hydr. Dump 225A CB	2/12/16	Acceptable
PSB1	?	480V Panel 225A CB	2/12/16	Acceptable
PSB1	DFR	DFR 400A CB	2/12/16	Acceptable
PSB1	INFEED	Infeed 400A CB	2/12/16	Acceptable
PSB1	MCC-2	MCC-2 feed 400A CB	2/12/16	Acceptable
PSB1	ABBVFD1	ABB 126 Fan Drive 1 600A CB	2/12/16	Acceptable
PSB1	ABBVFD2	ABB 127 Fan Drive 2 600A CB	2/12/16	Acceptable
PSB1	ECS2	ECS #2 600A CB	2/12/16	Acceptable
SHA	SHA	480V SHA Panel 42 ckt	2/12/16	Acceptable
SHA	SHA2	480V SHA2 Panel 18 ckt	2/12/16	Acceptable
SHA	SHA LCP	SHA Lighting Control Panel	2/12/16	Acceptable
SHA	SHA1	480V SHA1 Panel 18 ckt	2/12/16	Acceptable
SHA	SHAXFMR	SHA transformer disconnect	2/12/16	Acceptable
SHA	LSA	208V panel 42 ckt.	2/12/16	*Suggestion
MAG	MAGR2	Mag Rectifier #2	2/12/16	Acceptable
MAG	MAGR1	Mag Rectifier #1	2/12/16	Acceptable
LRHEO	LRHEO	Auto liq. Rheostat CP	2/12/16	<b>Fault Identified</b>
MCC-3-1A	ECS1	ECS #1 feed	2/12/16	Acceptable
MCC-3-1B	LP	Light Pole	2/12/16	Acceptable
MCC-3-1C	YSPK	Yard Sprinkler	2/12/16	Acceptable

## Problem Detail Report

Listed below are all items found to be **immediate problems** and items that may get **worse with time or warrant further attention**. Notes added on suggested solutions for these problems.

### MCC-X-3A LTG PNL 120/208V Lighting Panel \*Suggestion

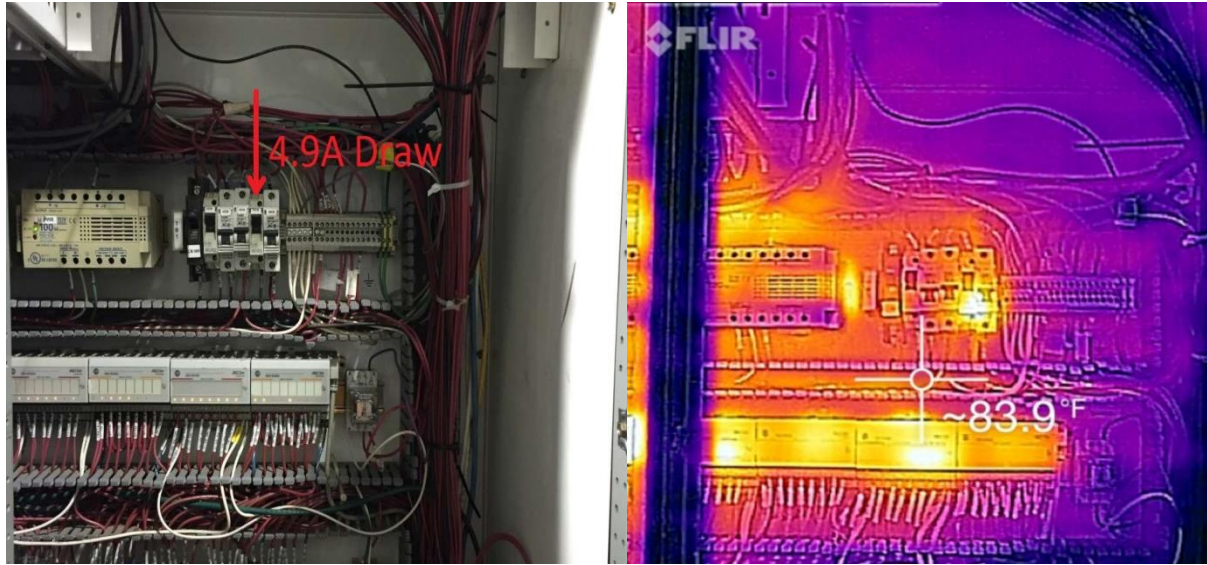
480V MCC-1 located in Motor room.



There are currently 3 wires landed under one terminal on circuit breaker 11. There was no significant heat or current draw present at the time of the scan. The breaker terminals are only rated for a two-wire termination. First suggestion would be to determine whether one of the three circuits could be relocated to an available breaker. Note: pig-tailing within the panel is not an option however as it is against NEC code to splice within a distribution/branch circuit panel.

## MCC-X-7A/8A MCC Control Panel \*Suggestion

480V MCC-1 located in Motor Room.



Circuit breaker #45 is currently drawing 4.9A and is rated for 5A. There is no immediate cause for concern. We included it for information purposes in the event that the site looks to add control components to an area this circuit currently feeds.

**X Panel Bank – Panel X 120/208V** \*Suggestion

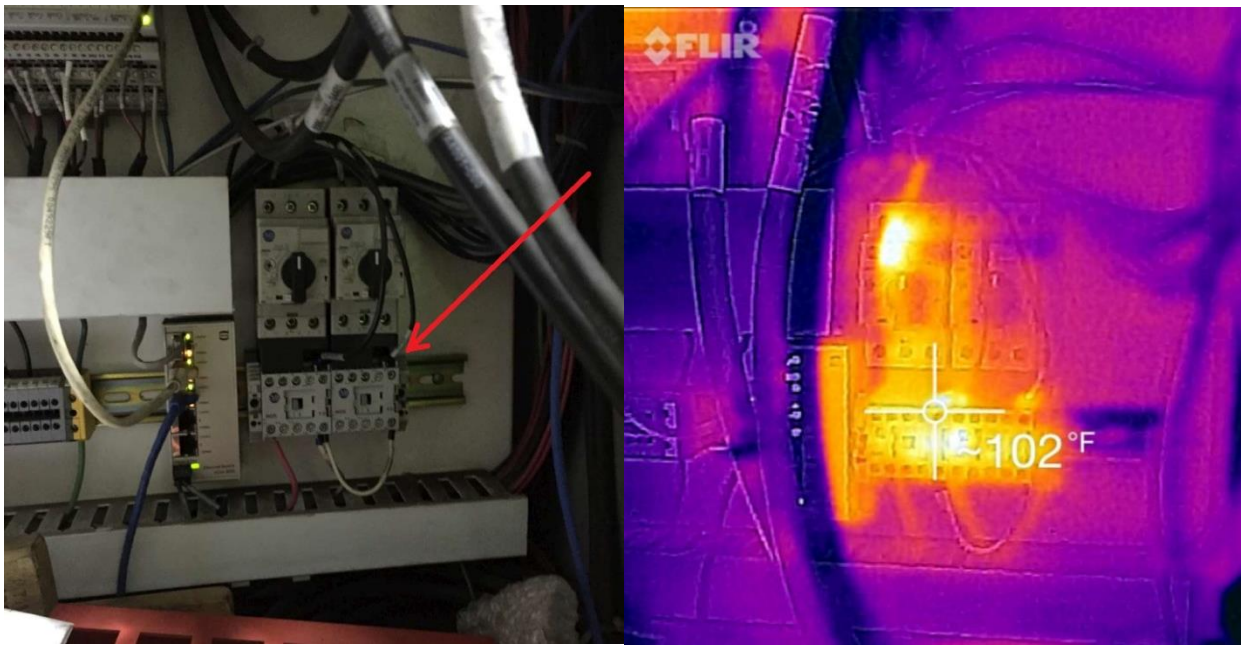
120/208V panel located in X panel bank in Motor Room.



Circuit Breaker #5 in Panel LSA was tripped during scanning. We did not attempt to reset as the line running and we didn't want to inadvertently cause a problem. Recommend this asset is scanned during the next round of testing.

## Auto Liquid Rheostat/Arc detector Control Panel Fault Identified

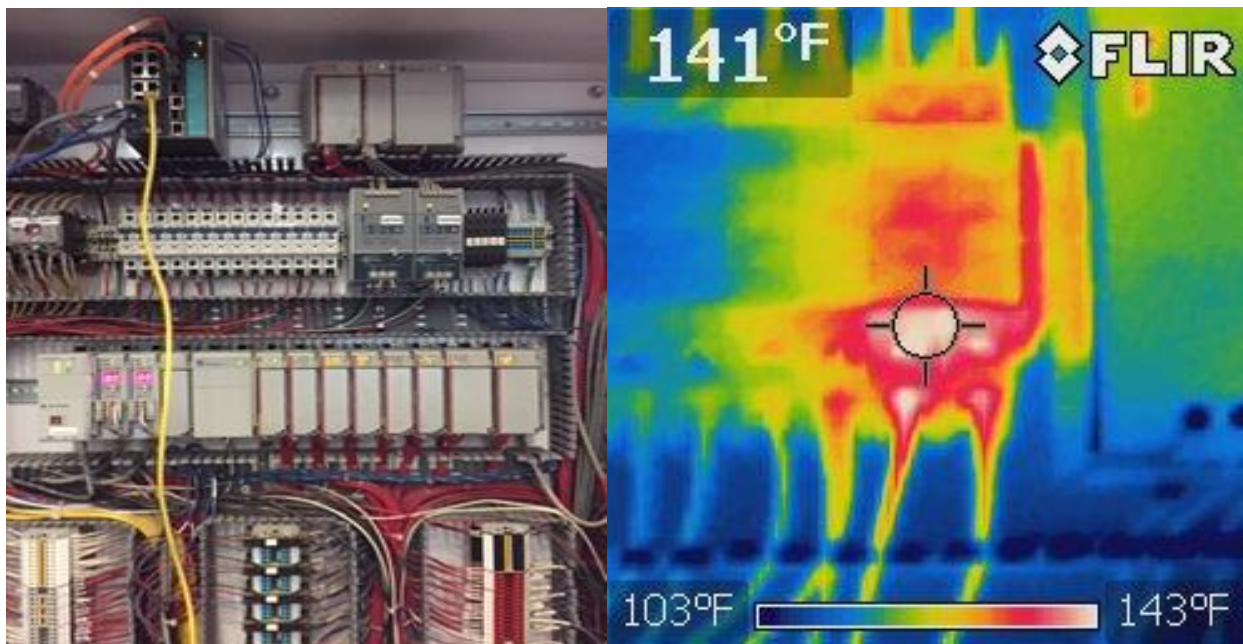
Liquid rheostat control panel located in Motor Room



The “C” (T3) leg on the Contactor in the photo above scanned hot. We believe this is being caused by either a loose or faulty termination since the source of the heat is at the terminal itself. Suggest re-terminating ensuring that barrel capture engages correctly.

## **MCC-3-3E Fault Identified**

X Control Panel located in Building B third floor



Circuit breaker #15 (2<sup>nd</sup> to left from power supply) appears to have a loose connection causing heat at the termination point.