







On February 26-28, 2024, all electrical panels throughout the Olive Branch Plant were scanned using a **FLIR T865** infrared camera. The following report only contains defects that were found during the survey. Below is our classification system for each defect included in this report. If there are anyquestions or comments, please feel free to contact us at any time.



employs a three-tier defect rating system:

**CLASS I**: A defect or defects are present that are likely to cause a problem in the long term (2-6 months). Should be addressed in the normal course of maintenance scheduling.

**CLASS II**: A defect or defects are present that are likely to cause a failure in the short term (less than 2 months). Should be addressed as soon as practical, on a high maintenance priority. Consideration should be given to increase monitoring frequency.

**CLASS III**: A defect or defects are present that make continued component reliability unpredictable and likelihood of secondary damage is high. Consideration should be given to an unscheduled shutdown to correct.

*tests and inspects industrial machinery and equipment and makes recommendations concerning maintenance and repairs based on its experience in the field of industrial repair and maintenance. The information contained herein is provided as an opinion only, not as a guaranty or warranty of the matters discussed herein.* 



Switch

## Equipment/Bucket ID

206x01 in cabinet at trailer door 13



Measurements				
Li1				
Max	124.6 °F			
Avg	88.1 °F			
Min	79.5 °F			
Sp1	125.8 °F			



Fault
Possible issue with switch/connection
Defect Rating

CLASS I



## Recommendations

IR image shows some heat on the switch. This may be due to load but may also be due to weak contact within the switch. For now, check amp reading and ensure all connections at switch are tight.



Wire

## Equipment/Bucket ID

RTU 20 on roof



Wire is corroded and IR image does show some elvated heat at the smaller wires. Check amp reading ensuring wires are properly sized for the load. Replace bad wire and ensure all connections are tight.



Connections

## Equipment/Bucket ID

Wire 209a in Unit RTU1



Measurer	nents	
Li1		
Max	142.1 °F	
Avg	121.9 °F	
Min	108.4 °F	
Sp1	150.7 °F	



Fault Connection issues Defect Rating CLASS I



## Recommendations

IR image shows some possible issues with the lead connections on top switch and middle wire on bottom switch. Check all connections, ensuring a clean and tight connection.



#### Breaker 15 lead

#### Equipment/Bucket ID

LG10-1



LI1		
Max	109.3 °F	
Avg	88.8 °F	
Min	79.9 °F	
Li2		
Max	111.7 °F	
Avg	82.6 °F	
Min	79.8 °F	
Sp1	110.5 °F	
Sp2	111.6 °F	
Sn2	106.3 °F	



Fault
Loaded breaker/conenctions
Defect Rating

CLASS I



## Recommendations

Breaker 15 may have heavy load or connection issue. Check load on circuit ensuring load is within rating. Ensure breaker is tight to the buss and ensure lead connection going into the breaker is clean and tight.



## Equipment/Bucket ID

Sandblast room empire



Li1		
Max	140.2 °F	
Avg	98.4 °F	
Min	87.0 °F	
Sp1	139.3 °F	
Sp2	143.0 °F	



Fault
Loaded wire/connection
Defect Rating

CLASS I



## Recommendations

Top lead with brown tape shows some delta-t. This may be heavy load. Check amperage on wire ensuring the wire is rated for the load. Check connection ensuring a clean and tight connection.



Wire 105

#### **Equipment/Bucket ID**

Grinding Line Panel



Measurements			
Li1			
Max	181.2 °F		
Min	90.0 °F		
Sp1	189.1 °F		
Sp2	177.8 °F		

300 **px** 



## Recommendations

Leads going into fuse block are showing some heat. Fuse block also has some heat present. This may be a connection issue in fuse block. Check connections ensuring a clean and tight conection.



Wire 105

## Equipment/Bucket ID

Vertical edge washer 04



Measurements				
Li1				
Max	161.3 °F			
Avg	110.6 °F			
Min	85.8 °F			
Sp1	160.5 °F			
Sp2	147.2 °F			





Fault Faulty Connection

Defect Rating CLASS I

# Recommendations

Wire 105 shows some heat. Check connection ensuring a clean and tight connection.



#### Connections

#### Equipment/Bucket ID

COP2 RP081



Li1		
Max	136.7 °F	
Avg	102.9 °F	
Min	91.0 °F	
Sp1	121.3 °F	







# Recommendations

Check connections ensuring a clean and tight connection.



#### Connections

#### Equipment/Bucket ID

COP1 RP051



Li1		
Max	184.4 °F	
Avg	119.0 °F	
Min	97.0 °F	
Sp1	134.2 °F	







## Recommendations

Check all connections ensuring a clean and tight connection. It is unlcear if there are thermal heaters equipped. If so, these may need to be changed out.



Wire 240

## Equipment/Bucket ID

Wisconsin Oven Cabinet



1:1		
LI 1		
Max	192.5 °F	
Avg	132.9 °F	
Min	108.5 °F	
Sp1	187.2 °F	
Sp2	140.7 °F	



Fault Faulty connection Defect Rating CLASS II



#### **Recommendations**

IR image shows some delta-t on wire 240. Check connection ensuring a clean and tight connection.



# Summary

File name	Created	Maximum temp.	Page number
FLIR0613.jpg	2/26/2024 12:24:35 AM	137.9 °F	3
FLIR0615.jpg	2/26/2024 7:45:27 PM	128.0 °F	4
FLIR0617.jpg	2/26/2024 8:15:21 PM	157.8 °F	5
FLIR0619.jpg	2/26/2024 9:01:17 PM	119.2 °F	6
FLIR0621.jpg	2/26/2024 9:15:33 PM	145.2 °F	7
FLIR0629.jpg	2/26/2024 11:46:47 PM	201.7 °F	8
FLIR0633.jpg	2/27/2024 6:43:32 PM	162.8 °F	9
FLIR0635.jpg	2/27/2024 7:58:43 PM	136.7 °F	10
FLIR0639.jpg	2/27/2024 8:31:26 PM	188.2 °F	11
FLIR0641.jpg	2/28/2024 12:06:05 AM	193.4 °F	12



This concludes our survey report. Please feel free to contact us at any time for question or comments.

Thank you for your business,

Kerrin W. Maxuell



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