



USG Greenville, MS September 2023 Infrared Survey Report



All electrical panels 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 any questions 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.

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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.



Component

Connections

Equipment/Bucket ID

VFD26XX Fiberglass 2nd Pass Paint Heater Panel



Measurements		
Sp2	180.5 °F	
Sp3	195.4 °F	
Sp4	173.3 °F	
Li1		
Max	199.0 °F	
Avg	125.2 °F	
Min	107.4 °F	
Sp1	189.4 °F	







Recommendations

IR shows likely issue with connections. These connections are near FB3018 fused component. Check connections, ensuring a clean and tight connection.



Component

Load side leads

Equipment/Bucket ID

VFD26XX SCR3030



Measurements		
Sp2	156.7 °F	
Sp3	158.4 °F	
Li1		
Max	161.0 °F	
Avg	121.7 °F	
Min	102.4 °F	
Sp1	160.5 °F	



Fault Unbalanced load/connection issue

> Defect Rating CLASS I

°F Profile 152.3 134.3 116.3 0 40 80 120 160 200 px

Recommendations

B phase appears to have higher temp than A and C. C phase appears to have a low temp compared to the other two phases. Check load on each phase and check connections.



Component

Fused Component

Equipment/Bucket ID

FB1512 VFD11XX



Measurements			
*253.7 °F			
225.9 °F			
236.0 °F			
169.2 °F			
127.1 °F			
211.5 °F			
211.5 °F			
	*253.7 °F 225.9 °F 236.0 °F 169.2 °F 127.1 °F 211.5 °F		







Recommendations

Fused component marked FB1512 appears to be bad. Replace component and ensure all conections are good.



Summary

File name	Created	Maximum temp.	Page number
FLIR0519.jpg	9/12/2023 3:00:26 AM	199.8 °F	3
FLIR0521.jpg	9/12/2023 3:02:56 AM	161.1 °F	4
FLIR0523.jpg	9/12/2023 3:05:54 AM	266.4 °F	5



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

Thank you for your business,

Keren W. Marcuell



ITC Certified Level II Infrared Thermographer

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