



2022 Infrared Thermography 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.



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.



Component	Circuit Breaker		
Equipment/Bucket ID	Loading Dock Mezzanine	Panel H1 breaker 35	5
Bx1 Li1 Sp1 Sp2 Sp3 T		119°F Sp1 Sp2 Sp3 Li1 Minimum Bx1 Minimum Bx1 Maximum	116.0 °F 118.7 °F 117.6 °F 94.6 °F 120.0 °F 87.6 °F 120.5 °F
And 29 30 30 30 30 30 30 30 30 30 30 30 30 30	Label Minimur Li1 94.57	m Maximum Average 120.01 102.57	120 115 110 105 100 95

Fault	Heavy Load	
Defect Rating	CLASS I	

IR image shows possible load issue with this circuit. Check current load as time allows. Ensure all connections are tight as well.



Component	Fuse Knife Switch		
Equipment/Bucket ID	Slot maint area	112.5 xfmr panel	
	t r ,	94.2°F	
Bx1		Sp1	79.2 °F
Sp1	No. of Concession, Name	Sp2	97.7 °F
		Sp3	75.5 °F
	And	Li1 Minimum	72.7 °F
Sp2		Li1 Maximum	97.7 °F
		Bx1 Minimum	69.9 °F
		Bx1 Maximum	111.8 °F
		71.9°F	
			95 90 85
	Label Minimu	um Maximum Average 97.67 78.15	- 80 - 75

Fault	Worn or dirty knife components	
Defect Rating	CLASS I	

Slight heat issue with the B phase knife components. Ensure all components are clean and not worn. Fuse switch may need to be replaced.



Component	Circuit Breaker	
Equipment/Bucket ID	SA4 panel	Breaker 28



Fault	Load issue/connection issue	
Defect Rating	CLASS I	

Breaker 28 likely has a decent load on the circuit. Also, may have some connection issue. Measure load on circuit and ensure connections are clean and tight.



Component	Circuit Breaker	
Equipment/Bucket ID	ER2 SB1 Buffalo Breaker	



Fault	Heavy Load	
Defect Rating	CLASS I	

IR image shows breaker and leads to have some heat. This is likely a load issue. Load was measured and found to be fairly heavy.



Component	Circuit Breaker	
Equipment/Bucket ID	SB8 Breaker 34 and 36	



Fault	Possible internal breaker issue	
Defect Rating	CLASS I	

There appears to be some heat at the back of breaker 34 and 36. Load was measured and found to be around 14 amps which is acceptable so there may be an internal issue with the breaker. Recommend replacing both breakers as time allows.



Component	B phase connections			
Equipment/Bucket ID	Mezzanine Elec Room	MCCB1a	KEF8	



Sp1	140.0 °F
Sp2	132.4 °F
Sp3	109.2 °F
Sp4	97.2 °F
Li1 Minimum	88.5 °F
Li1 Maximum	139.8 °F
Bx1 Minimum	75.8 °F
Bx1 Maximum	140.3 °F





Fault	Possible loose connection	
Defect Rating	CLASS I	

There may be a connection issue with the B phase connections. Inspect connections ensuring they are clean and tight.



Component	Fuse	clip	
Equipment/Bucket ID	ER by parking garage	LSB1 Panel T3F	
Bx1		110°F	109 7 °F
		Sp1	92.7 °F
Sp1		Sp2 Sp3	92.1 °F
		Li1 Minimum	90.6 °F
		Li1 Maximum	110.6 °F
The second se		Bx1 Minimum	88.6 °F
Sp2		Bx1 Maximum	112.9 °F
	٩	0.9°F	
	M		108
A DANG			104
			100
			96
	Label Minimur Li1 90.56	n Maximum Average 110.61 96.55	92

Fault	Possible fuse clip issue	
Defect Rating	CLASS I	

IR image suggests that the fuse clip on the top fuse may have an issue. Inspect fuse/fuse clip ensuring connection is clean and tight.



Component	Fuse connection
Equipment/Bucket ID	LSB2 panel T3L



Sp1	105.7 °F
Sp2	93.8 °F
Sp3	92.4 °F
Li1 Minimum	92.0 °F
Li1 Maximum	108.6 °F
Bx1 Minimum	90.7 °F
Bx1 Maximum	108.8 °F





Fault	Fuse connection issue	
Defect Rating	CLASS I	

Top fuse appears to have more heat at the insulated connection. For now check load and ensure connection is clean and tight.



Component	Fuse clip/connection
Equipment/Bucket ID	HSB1 HB-2



Sp1	99.0 °F
Sp2	105.7 °F
Sp3	112.9 °F
Li1 Minimum	92.0 °F
Li1 Maximum	112.0 °F
Bx1 Minimum	88.3 °F
Bx1 Maximum	113.9 °F

Fault	Fuse clip/connection issue	
Defect Rating	CLASS I	

There is likely an issue with the bottom fuse connection/clip. Check connections/clip ensuring a tight and clean connection. Ensure clip isn't worn or faulty.

Summary

Image Date&Time	Page number
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7/20/2022 9:11:20 AM	7
7/20/2022 9:54:00 AM	8
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This concludes our survey report. Please feel free to contact us at any time for question or comments.

Thank you for your business,

Kerin W. Maguell

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