



7030 Ryburn Drive Millington, TN 38053 Office: 901-873-5300 Fax: 901-873-5301  
gohispeed.com

# QualiTest IR Radiometric Survey Report



## Harlow's Casino and Resort 2019 IR Survey Report

*Kevin W. Maxwell*

ITC Certified Level I Infrared Thermographer  
[kwilliam@gohispeed.com](mailto:kwilliam@gohispeed.com)

Job Number	140437
Survey Date	8/21/19
Report Date	8/27/19

# QualiTest IR Radiometric Survey Report



All electrical panels were scanned using a FLIR P60 infrared camera. The following report only contains defects that were found during the survey. Below is our classification system for each defect contained in this report. If there are any questions or comments, please feel free to contact us at any time.

**Hi-Speed Industrial Service QualiTest Diagnostics** employs a four-step defect rating system:

**CLASS I** - A defect is present, but the likely effect on component reliability is not clear. No immediate action is recommended other than continued monitoring.

**CLASS II** - 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; continue to monitor.

**CLASS III** - 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 is practical, on a high maintenance priority. Consideration should be given to increased monitoring frequency.

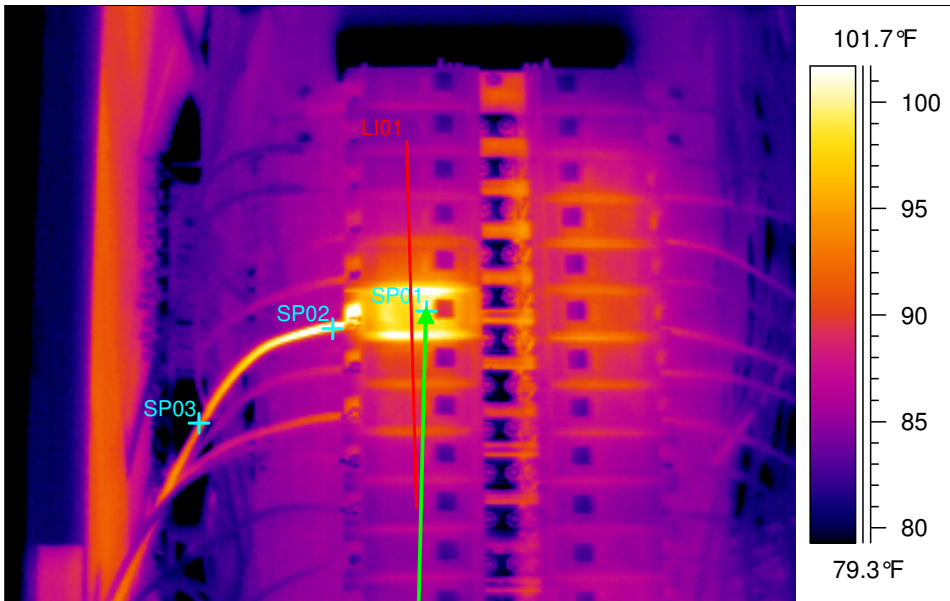
**CLASS IV** - A defect or defects are present that make continued component reliability unpredictable, and likelihood of secondary damage is high. Consideration should be given to an unscheduled shutdown to correct.

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

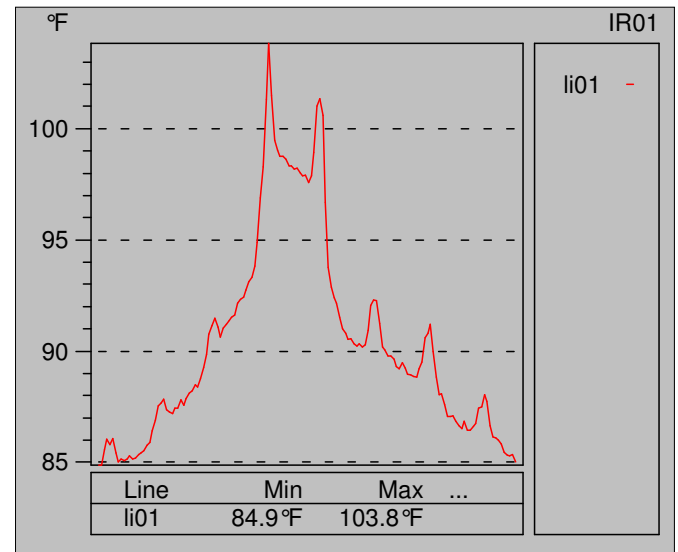
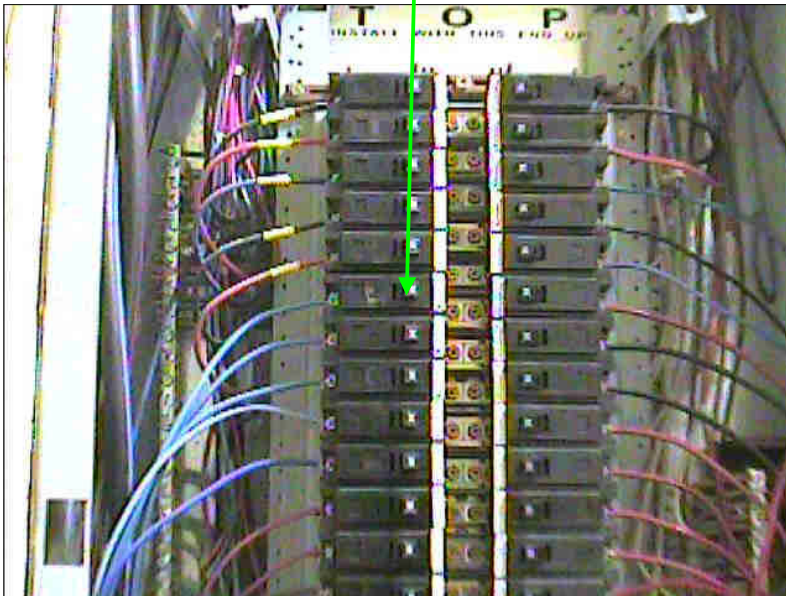




Component	Equipment/Bucket ID	Plant/Area	Date
Circuit 11	RP-1	Stage Bar Panels	8-21-19



Label	Value
IR : max	106.6°F
IR : min	72.9°F
SP01	102.7°F
SP02	105.9°F
SP03	90.4°F
LI01 : max	103.8°F
LI01 : min	84.9°F



Fault	Breaker issue
Defect Rating	<b>CLASS I</b>

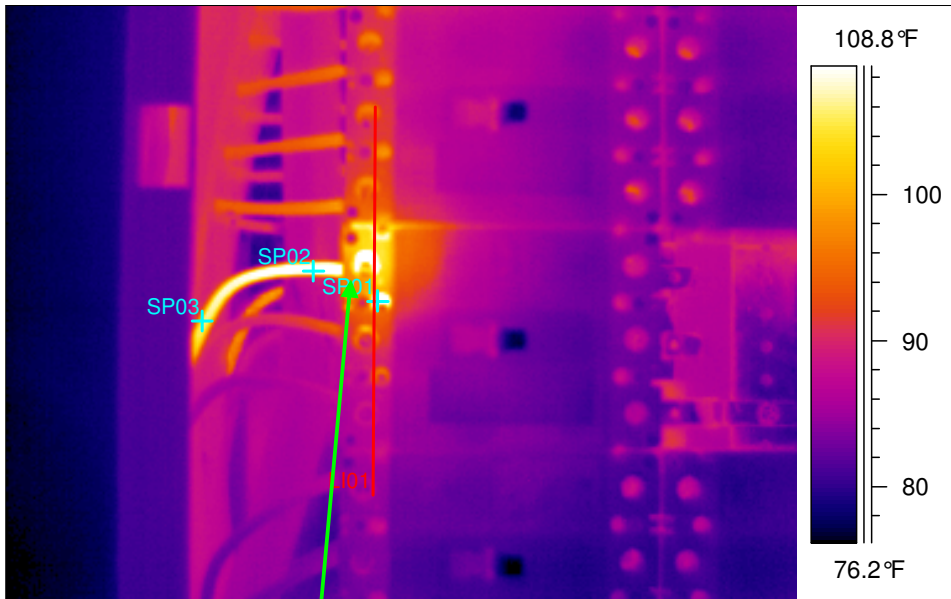
### Recommendation

Breaker appears to be heavily loaded or has possible internal issue that is causing heat. Lead connection checked to be tight. Ensure breaker isn't under excessive load. Breaker may need to be replaced.

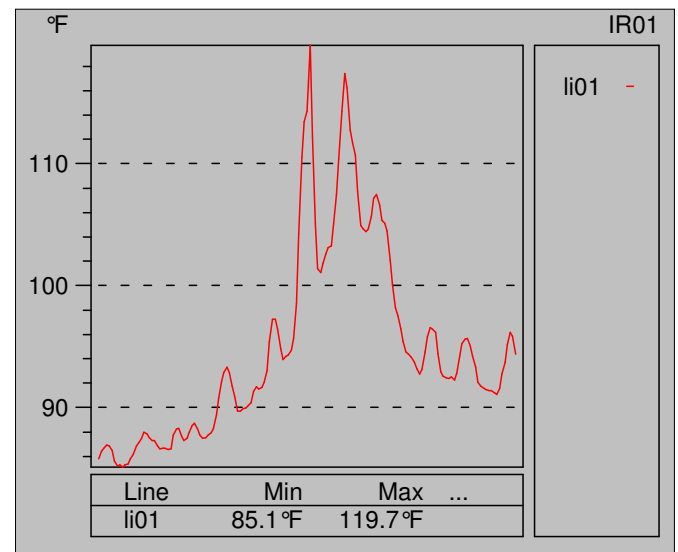




Component	Equipment/Bucket ID	Plant/Area	Date
Loose connection	Water Well Pump/HP-1	Emergency Panel Room (Bridge)	8-21-19



Label	Value
IR : max	128.8°F
IR : min	75.7°F
SP01	127.0°F
SP02	112.9°F
SP03	105.6°F
LI01 : max	119.7°F
LI01 : min	85.1°F



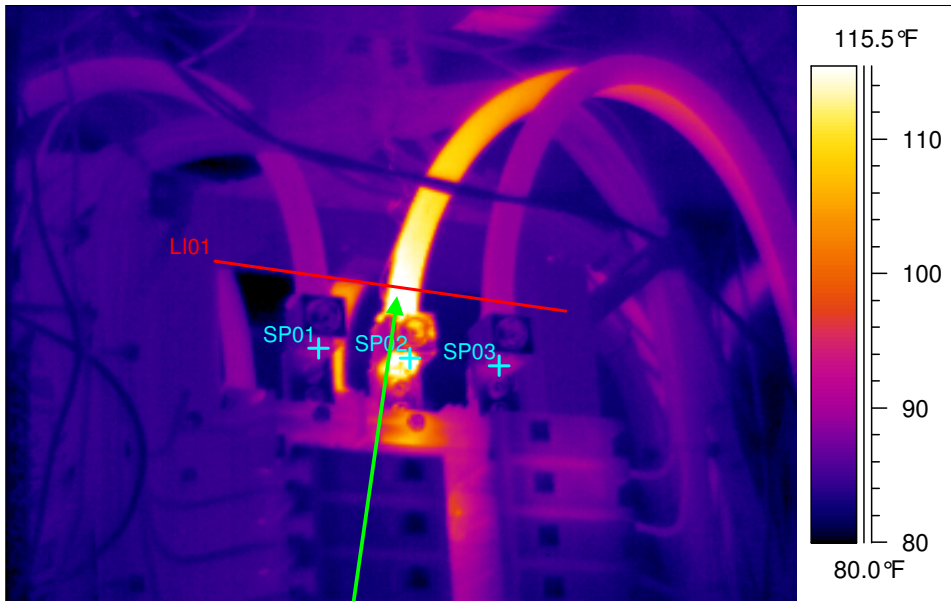
<b>Fault</b>	Loose connection
<b>Defect Rating</b>	<b>CLASS II</b>

## Recommendation

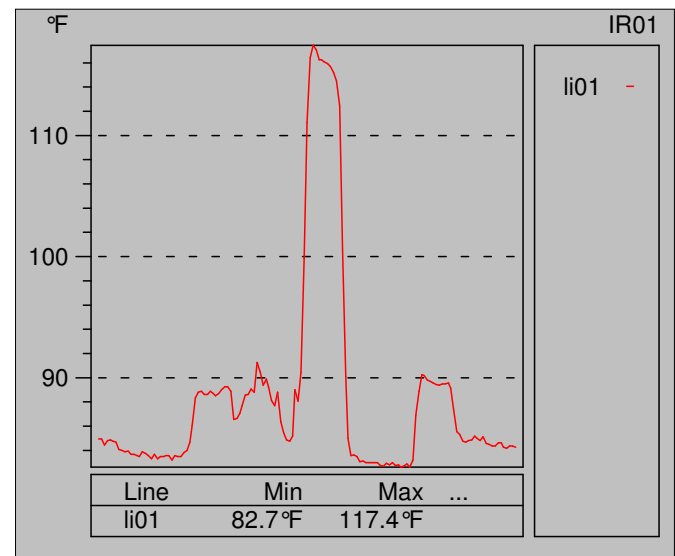
IR image showed a possible loose connection. Connections were checked and found to be loose. Gephart safely tightened connection with proper PPE. Panel was rechecked and found to be OK after tightening connection. See 2nd image.



Component	Equipment/Bucket ID	Plant/Area	Date
Loose connection	Incoming B phase RP-7	Emergency Panel Room (Bridge)	8-21-19



Label	Value
IR : max	125.9°F
IR : min	79.5°F
SP01	89.8°F
SP02	125.1°F
SP03	89.9°F
LI01 : max	117.4°F
LI01 : min	82.7°F



<b>Fault</b>	Loose connection
<b>Defect Rating</b>	<b>CLASS II</b>

### Recommendation

R image showed a possible loose connection. Connections were checked and found to be loose. Gephart safely tightened connection with proper PPE. Panel was rechecked and found to be OK after tightening connection. See 2nd image.