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GE Energy

Functional Testing Specification*Parts & Repair Services
Louisville, KY***LOU-GED-142C2302****Test Procedure for a Reactor Pressure Test Board, 142C2302G0001.****DOCUMENT REVISION STATUS:** Determined by the last entry in the "REV" and "DATE" column

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A	Initial release	Scott Cash	3/26/2012
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PREPARED BY S. Cash	REVIEWED BY	REVIEWED BY	QUALITY APPROVAL <i>Charlie Wade</i>
DATE: 3/26/2012	DATE:	DATE	DATE 3/26/2012

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1. SCOPE

1.1 This is a functional testing procedure for the Test Procedure for a 142C2302G0001 Card

2. STANDARDS OF QUALITY

2.1 Refer to the current revision of the IPC-A-610 standard for workmanship standards.

3. APPLICABLE DOCUMENTS

3.1 The following document(s) shall form part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue shall apply.

3.1.1 **P3K-AL-0121-A01 and other shop documentation on this card.**

4. ENGINEERING REQUIREMENTS

4.1 Equipment Cleaning

4.1.1 Equipment should be clean and free of debris prior to applying power unless performing an initial check. Refer to the local documented procedures for cleaning guidelines.

4.2 Equipment Inspection

4.2.1 Equipment should be visually inspected for any defects prior to applying power. This inspection should include the following as a minimum:

4.2.1.1 Wires - broken, cracked, or loosely connected

4.2.1.2 Terminal strips / connectors - broken or cracked

4.2.1.3 Components - visually damaged

4.2.1.4 Capacitors - bloated or leaking

4.2.1.5 Solder joints - damaged or cold

4.2.1.6 Circuit board - burned or de-laminated

4.2.1.7 Printed wire runs / Traces - burned or damaged

5. EQUIPMENT REQUIRED

5.1 The following equipment is required to perform the process requirements. Equipment may be substituted provided that all accuracy's and test ratios are equivalent or better.

Qty	Reference #	Description
1		Fluke 87 DMM (or Equivalent)

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6. TESTING PROCESS

6.1 Testing Procedure

- 6.1.1 Set R2 & R3 fully CW.
- 6.1.2 Set S1 in the Lo position.
- 6.1.3 Place a jumper between pin-1 and pin-11.
- 6.1.4 Measure 100K ohm +- 2%, between pin-7 & pin-3.
- 6.1.5 Set R2 fully CCW and measure 1.1M ohm +- 10%, between pin-7 & pin-3.
- 6.1.6 Set R3 fully CCW and measure 1.2M ohm +- 10%, between pin-7 & pin-3.
- 6.1.7 Set S1 in the Hi position, read infinite ohms.
- 6.1.8 Set S2 in "Normal" position and measure 0 ohms between pin-31 & pin-27 and infinity between pin-36 & pin-39, (up).
- 6.1.9 Set S2 in "Fail" position and measure 0 ohms between pin-36 & pin-39 and infinity between pin-31 & pin-27, (down).

6.2 Post Testing Burn-in Required X Yes No



Note: All MARK I, II, & III Turbine related cards require a post testing burn-in of 100 hours.

- 6.2.1 Apply BUS or Operational power to the card for a period of 100 hours.
- 6.2.2 Re-test card while warm using the above procedure.

6.3 *****TEST COMPLETE*****

7. NOTES

- 7.1 R2 pot has 10% tolerance
- 7.2 U4052 superseded by U6011AA
- 7.3 Steps 5 & 6 changed to read 10%, per Hans Keller, 3-15-78.

8. ATTACHMENTS

- 8.1 None at this time.