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GE Energy

Functional Testing Specification*Parts & Repair Services
Louisville, KY***LOU-GED-DS3820BFCA****Test Procedure for DS3820BFCA, a rectifier assembly with two simple cards.****DOCUMENT REVISION STATUS:** Determined by the last entry in the "REV" and "DATE" column

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DATE 6/27/2011	DATE	DATE	DATE 6/27/2011

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1. SCOPE

1.1 This is a functional testing procedure for a 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 Check board's electronic folder for more information

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 site specific SRA's 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		Megger
1		Fluke 87 DMM (or Equivalent)

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6. TESTING PROCESS

- 6.1 Testing Procedure
- 6.2 Set Megger to 500 Volts
- 6.3 With the black lead of the megger on the bottom (cathode) heat sink and the white probe (anode) on the top heat sink press down the right side of the measure button, megger should read at least 5 meg.
- 6.4 Reverse the leads of the megger press down the right side of the measure button. Megger should read short.
- 6.5 Resistance check for DS3800NPCC
- 6.6 Verify 0 ohms from J1-J2
- 6.7 Verify INF. Ohms from J3-J3
- 6.8 Verify 20 ohms +/- 1 ohm from J3-J5
- 6.9 Verify 20 ohms +/- 1 ohm from J4-J5
- 6.10 Verify 40 ohms +/- 2 ohms from J3-J4
- 6.11 Visual check. Verify MOV 1 & MOV 2 are correct part number per M.L.
- 6.12 Resistance check for DS3800NPCE
- 6.13 Verify 0 ohms from JO (A) to JO (B)
- 6.14 Verify 0 ohms from J1 (A) to J1 (B)
- 6.15 Verify 53.3 ohms +/- 4 ohms from JO (A) to J1 (A)
- 6.16 Verify 80 ohms +/- 4 ohms from J1 (A) to J 1/2
- 6.17 *****TEST COMPLETE ****

7. NOTES

- 7.1 None at this time.

8. ATTACHMENTS

- 8.1 None at this time.