g GE Energy	**Functional Testing Specification**
Parts & Repair Services ***Louisville, KY***	**LOU-GED-DS3800NVMB**

Test Procedure for a AC Source Monitor Card

DOCUMENT REVISION STATUS: Determined by the last entry in the "REV" and "DATE" column

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release written for DS3800NVMB.	S. Pharris	11/23/2010

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Functional test procedure for an AC Source Monitor Card

1. SCOPE

1.1 This is a functional testing procedure for a High Voltage 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 UUT documentation folder

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 or cracked

4.2.1.2 Terminal strips / connectors broken or cracked

4.2.1.3 Loose wires

4.2.1.4 Components visually damaged

4.2.1.5 Capacitors leaking

4.2.1.6 Solder joints damaged or cold

4.2.1.7 Circuit board burned or de-laminated

4.2.1.8 Printed wire runs 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)
1		Variac
1		Power Supply
1		Cable Assembly for DS3800NVMB

6. Modifications/Upgrades

6.1 None

7. Testing Process

7.1 Setup

7.1.1 Turn pot R10 fully CCW

7.1.2 Set Variac for 0VAC

7.1.3 Set power supply for 18.5VDC

7.1.4 Connect cable to J1

7.1.5 Connect green and yellow jacks to power supply (polarity is not important)

7.1.6 Connect blue and grey jacks to DMM (polarity is not important)

7.2 Testing Procedure

7.2.1 Turn on DC supply

7.2.2 Turn on Variac

7.2.3 Verify LED is off

7.2.4 Increase voltage on Variac while monitoring DMM

7.2.5 Verify LED turns on at approx. 80VAC +/- 5VAC

7.2.6 Turn pot R10 fully CW

7.2.7 Verify LED turns off

7.2.8 Increase voltage on Variac while monitoring DMM

7.2.9 Verify LED turns on at approx. 110VAC +/- 5VAC

7.2.10 Decrease Variac to 0VAC

7.2.11 Reverse green and yellow jacks to switch incoming polarity

7.2.12 Turn pot R10 fully CCW

7.2.13 Verify LED is off

7.2.14 Increase voltage on Variac while monitoring DMM

7.2.15 Verify LED turns on at approx. 80VAC +/- 5VAC

7.2.16 Turn pot R10 fully CW

7.2.17 Verify LED turns off

7.2.18 Increase voltage on Variac while monitoring DMM

7.2.19 Verify LED turns on at approx. 110VAC +/- 5VAC

7.2.20 Remove all power to UUT

7.3 ***TEST COMPLETE ***

8. Notes

8.1 None at this time.

9. Attachments

9.1 None at this time.