g GE Energy Services *Parts & Repair Services* *Louisville, KY*	**Functional Testing Specification** **LOU-GED-DS3800NHVM**

Test Procedure for a High Voltage 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 DS3800NHVM.	D. Laemmle Glenn Chandler	11/9/2007
B	Amended to include installation of the card into the digital Siltron for drive testing.	Cristyn Edlin	08/07/09
C	Card now tested in drive only	Steve Pharris	4/28/2010

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DATE	**DATE**	**DATE**	**DATE**
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Functional test procedure for High Voltage 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 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 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		Digital Siltron

6. TESTING PROCESS

6.1 Setup

6.1.1 Install card in drive verifying proper jumper settings

6.2 Testing Procedure

6.2.1.1 Turn on the Siltron power.

6.2.1.2 Reset the PLC by turning the key-switch to the Stop position and then back to the Run position.

6.2.1.3 Watch the Armature Volts meter (middle meter) to verify six positive pulses and six negative pulses. This should happen after about thirty seconds.

6.2.1.4 Once the "Ready to run" light comes on, verify the meter readings in accordance with table 4.

Field Amps meter	65%
Armature Voltage meter	110Volts
Armature Amps meter	50%

Table 4

6.2.1.5 Allow UUT to run for minimum of one hour.

6.2.1.6 Turn off the Siltron power and remove board.

6.3 *TEST COMPLETE*

7. NOTES

7.1 None at this time

8. Oscilloscope Verification Examples:

8.1 None at this time