g GE Energy	**Functional Testing Specification**
Parts & Repair Services ***Louisville, KY***	**LOU-GED-DS3800DPSA**

Test Procedure for a DS3800DPSA

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

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	J. Wychulis	6/1/2009
B	Revision – Added load testing	J. Francis	08/28/2009
C			

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DATE	**DATE**	**DATE**	**DATE**
6/1/2009	8/28/2009		6/1/2009

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 Reference 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 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)
1		0-120VAC Variac
1	H188835	Load Box

6. TESTING PROCESS

6.1 Testing Procedure

6.1.1 Apply 115VAC to JA.

6.1.2 Check between TP-1(P105) and TP-3(COM) for 108VDC, +/-5%.

6.1.3 Jumper in a 440-Ohm (high wattage) resistor from DA1 to DA2. This particular value load draws 265 mA of current. Nominal current for this unit is 260 mA and maximum current is 320 mA. Verify the voltage between TP-1(P105) and TP-3(COM) is still around 108VDC and did not drop out. Check shelf for a pre-made load resistor box for this card.

6.1.4 Run unit under load for approximately 30 minutes.

6.1.5 The voltage is fixed and cannot be manually adjusted.

6.2 ***TEST COMPLETE ***

7. NOTES

7.1 None at this time

8. ATTACHMENTS

8.1 None at this time