g GE Energy	**Functional Testing Specification**
Parts & Repair Services ***Louisville, KY***	**LOU-GED-DS3800NWSE**

Test Procedure for a DS3800NWSE

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

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	Steve Pharris	03/01/10
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PREPARED BY	REVIEWED BY	REVIEWED BY	QUALITY APPROVAL
Steve Pharris			Charlie Wade
DATE	**DATE**	**DATE**	**DATE**
03/01/2010			3/10/2010

1. SCOPE

1.1 This is a functional testing procedure for a DS3800NWSE.

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 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	H188505	Fluke Calibrator
1		Tenma Power Supply

6. TESTING PROCESS

6.1 Setup

6.1.1 Set power supply for 28VDC

6.1.2 Connect to JA7 (+) and JA9 (-)

6.2 Testing Procedure

6.2.1 Apply power

6.2.2 Verify –12VDC at TP3 with respect to TP1

6.2.3 Verify +12VDC at TP6 with respect to TP1

6.2.4 Verify +5VDC at TP7 with respect to TP1

6.2.5 Verify CR3 is illuminated

6.2.6 Connect fluke calibrator to TB4 with respect to TP1

6.2.7 Push OPR button on Fluke to input no signal.

6.2.8 Verify CR3 turns off

6.2.9 Adjust output of fluke to 30mV

6.2.10 Verify CR3 illuminates

6.2.11 Decrease output from fluke to 20mV

6.2.12 Verify CR3 turns off

6.2.13 Remove power and all connections

6.2.14 Verify short between the following points

JA9-TP1

TP1-JA10

TP1-JR5

TP1-JR7

TP1-JS5

TP1-JS7

TP1-JT5

TP1-JT7

6.3 ***TEST COMPLETE ***

7. NOTES

7.1 None at this time

8. ATTACHMENTS

8.1 None at this time