g GE Energy	**Functional Testing Specification**
Parts & Repair Services ***Louisville, KY***	**LOU-GED-DS3800HXTA**

Test Procedure for a DS3800HXTA

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

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DATE	**DATE**	**DATE**	**DATE**
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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 None at this time.

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	H033767	DS3800 Conn. Box
1	H033772	DS3800 Power Supply
1		5VDC power Supply

6. TESTING PROCESS

6.1 Setup

6.1.1 Set a Low to JA25, a High to JA26, isolated 5VDC at PA12 & PA56, and common to PA14 & PA60.

6.2 Testing Procedure

6.2.1 Apply High to PA16. JA11 will read High and JA12 will read Low.

6.2.2 Apply Low to PA16. JA11 will read Low and JA12 will read High.

6.2.3 Apply High to PA25. JA9 will read High and JA10 will read Low.

6.2.4 Apply Low to PA25. JA9 will read Low and JA10 will read High.

6.2.5 Apply High to PA22. JA13 will read High and JA14 will read Low.

6.2.6 Apply Low to PA22. JA13 will read Low and JA14 will read High.

6.2.7 Apply High to PA10. JA15 will read Low and JA16 will read High.

6.2.8 Apply Low to PA10. JA15 will read High and JA16 will read Low.

6.2.9 Apply High to PA30. JA23 will read High and JA24 will read Low.

6.2.10 Apply Low to PA30. JA23 will read Low and JA24 will read High.

6.2.11 Apply High to PA21. JA21 will read High and JA22 will read Low.

6.2.12 Apply Low to PA21. JA21 will read Low and JA22 will read High.

6.2.13 Apply High to PA34. JA18 will read Low and JA17 will read High.

6.2.14 Apply Low to PA34. JA18 will read High and JA17 will read Low.

6.2.15 Apply High to PA36. JA20 will read High and JA19 will read Low.

6.2.16 Apply Low to PA36. JA20 will read Low and JA19 will read High.

6.2.17 Apply High to PA23. JA29 will read High and JA30 will read Low.

6.2.18 Apply Low to PA23. JA29 will read Low and JA30 will read High.

6.2.19 Apply High to PA8. JA36 will read Low and JA35 will read High.

6.2.20 Apply Low to PA8. JA36 will read High and JA35 will read Low.

6.2.21 Apply High to PA4. JA39 will read Low and JA33 will read High.

6.2.22 Apply Low to PA4. JA39 will read High and JA33 will read Low.

6.2.23 Apply High to PA2. JA34 will read Low and JA40 will read High.

6.2.24 Apply Low to PA13. JA39 will read High and JA40 will read Low.

6.2.25 Parity LED is “ON”.

6.2.26 Apply 5VDC to PA26 thru a 10K ohm resistor.

6.2.27 Using the isolated 5VDC, toggle JA3 & JA4 High – Low. JA26 will toggle High and Low.

6.3 ***TEST COMPLETE ***

7. NOTES

7.1 None at this time.

8. ATTACHMENTS

8.1 None at this time.