g GE Energy	**Functional Testing Specification**
Parts & Repair Operations ***Louisville, KY***	**LOU-GED-IS200JGPAG1A**

Test Procedure for a Core Analog Terminal Board

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

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	K Greenwell	7/7/2009
B	Added continuity steps 6.1.1	J. Francis	11/20/2012
C			

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DATE	**DATE**	**DATE**	**DATE**
7/7/2009	11/20/2012		7/7/2009

1. SCOPE

1.1 This is a functional testing procedure for a Core Analog Terminal Board.

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
2		Fluke 87 DMM (or Equivalent)
1		Power Supply Capable of 30VDC

6. TESTING PROCESS

6.1 Testing Procedure

6.1.1 Continuity checks

6.1.1.1 Using multimeter set for Resistance function, check for continuity between Eyelet E1 (CHASS) and Eyelet E2 (CHASS).

6.1.1.2 Using multimeter set for Resistance function, check for continuity between Eyelet E1 (CHASS) and TB1 pins 1 through 24.

6.1.1.3 Using Multimeter set for Resistance function, check for continuity between Eyelet E1 (CHASS) and TB2 pins 1 through 24.

6.1.2 Power Checks

6.1.2.1 Hookup +28VDC power supply across C13 or connect +28 VDC to P1-1 and 28 VDC return to P1-2.

6.1.2.2 Turn on power supply.

6.1.2.3 Check for +24VDC (+-3VDC) at TB3-1 thru TB3-12, with reference to PCOM. Use a 500-ohm resistor in series with an amp meter across each 24VDC -/+.5 VDC output at TB3-1 thru TB3-12. Verify voltage is sustained. You will be loading the output to 50% or 50mA.

6.1.2.4 Remove power and all connections.

6.2 ******TEST COMPLETE ******

7. NOTES

7.1 None at this time

8. ATTACHMENTS

8.1 None at this time