g GE Energy	**Functional Testing Specification**
Parts & Repair Services ***Louisville, KY***	**LOU-GED-DS200ADGI**

Test Procedure for a DS200ADGI card.

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

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	L. Groves	3/4/2010
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DATE	**DATE**	**DATE**	**DATE**
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1. SCOPE

1.1 This is a functional testing procedure for a DS200ADGI 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 Check board's 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 site specific SRA's 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	H033758	DC2000

6. TESTING PROCESS

6.1 Setup

6.1.1 Remove DS200SDCC and DS200SLCC cards from Drive

6.1.2 Install DS200LDCC card (front) and DS200ADGI card (back) in Drive

6.1.3 Remove daughter card IC660ELB912 from test board and install on DS200ADGI card

6.1.4 Install EEPROM U9 "DC2K NEW" from test board

6.1.5 Connect GEN1 and 2PL cables to DS200ADGI card

6.1.6 Connect 7PL, ARCPL, 8PL, 10PL, 1PL, 2PL, 6PL, & 11PL (observe keying)

6.1.7 Cables to DS200LDCC card.

6.1.8 Connect LNPL and COM1 cables between DS200LDCC and DS200ADGI cards.

6.1.9 Verify jumper settings: JP1"2-3" all others "1-2"

6.1.10 Install board into Drive *** **DO NOT APPLY POWER*****

6.1.11 On Control Panel measure from COM to all red test jacks and verify no shorts are on the Power Supplies. If any shorts or low ohm readings are found, correct before powering Drive.

6.2 Testing Procedure

6.2.1 Apply power to drive.

6.2.2 Download Genius program to PC from Control System Toolbox. kylou01misge(S:)/FIELD TOOLS/abc123/cd001/cd001_genious.

6.2.3 Download to drive by clicking device/download to AcDcEx2000

6.2.4 After successfully downloading drive will automatically reset, display will read "INITIALIZATION" then "INIT GENIUS" then "MS 0 % I 0 %".

6.2.5 Remove LNPL cable from DS200LDCC card, display should read "FL 437__LGENIRTM"

6.2.6 Push reset button display should read "FL 435 LGENINIT".

6.2.7 Reconnect LNPL cable to DS200LDCC & hit reset

6.2.8 Verify green LED on ADGI board is lit.

6.2.9 Power down and disconnect.

6.3 ***TEST COMPLETE ***

7. NOTES

7.1 None at this time.

8. ATTACHMENTS

8.1 None at this time.