g GE Energy	**Functional Testing Specification**
Parts & Repair Services ***Louisville, KY***	**LOU-GED-DS200CDBAG1A**

Test Procedure for a Contactor Driver

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

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	J Hardin	7/15/2009
B	Placed test cables and load into a box fixture H188938	B. Cash	8/12/2010
C			

PREPARED BY	REVIEWED BY	REVIEWED BY	QUALITY APPROVAL
J. Hardin	S. Cash		Charlie Wade
DATE	**DATE**	**DATE**	**DATE**
7/15/2009	8/12/2010		7/15/2009

1. SCOPE

1.1 This is a functional testing procedure for a Contactor Driver 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** GEI-100182B
- **3.1.2** Also can check the 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 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)
	H188938	DS200CDBAG Tester

6. TESTING PROCESS

6.1 Setup

6.1.1 All connections, cables, etc., are now part of fixture H188938.

6.2 Testing Procedure

6.2.1 Connect a current meter in series with the load, - on fixture H188938.

6.2.2 Turn Pot RV1 full counter clockwise.

6.2.3 Apply 115 VAC to 1TB11 & 1TB12 via the Red toggle switch on front.

6.2.4 There should be no leakage voltage at the coil and no current across amp-meter. If voltage is present correct before moving on.

6.2.5 Apply +24VDC to 1TB1 (+) & 1TB2 (-) via the medal toggle switch (MPL 11-12) also on front.

6.2.6 Measure between ACOMA & P15A for +15 VDC (+20%) supply.

6.2.7 Check for approx. 14VDC across load coil (MPL1 –MPL3)

6.2.8 Current meter should read approx. .57 amps.

6.2.9 Turn Pot RV1 full clockwise

6.2.10 Check for approx. 58VDC across load coil (MPL1 –MPL3)

6.2.11 Current meter should read approx. 2.3 amps.

6.2.12 Turn Pot RV1 full counter clockwise

6.2.13 Turn switch connected between MPL 11-12 to ON

6.2.14 Check for approx. 97VDC across load coil (MPL1 –MPL3)

6.2.15 Turn all switches off and disconnect card.

6.3 ***TEST COMPLETE ***

7. NOTES

7.1 None at this time

8. ATTACHMENTS

8.1 None at this time