g GE Energy	**Functional Testing Specification**
Parts & Repair Operations ***Louisville, KY***	**LOU-GED-IS200JPDDG1A**

Test Procedure for an AC Power Distribution Card.

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

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PREPARED BY	REVIEWED BY	REVIEWED BY	QUALITY APPROVAL
Frank Howard			Charlie Wade
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1. SCOPE

1.1 This is a functional testing procedure for a AC Power Distribution 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		Power Supply Capable of 28VDC to 125DC output

6. TESTING PROCESS

6.1 Setup

6.1.1 Verify switches SW1 through SW6 are in off position.

6.2 Testing Procedure

6.2.1 Verify continuity between J28 and J28X.

6.2.2 Verify continuity between J125 and J125X.

6.2.3 Apply 28VDC to J28-1 (+) and J28-4 (-). Each switch, SW1 through SW6, has a corresponding LED (DS1 through DS6) and JD connector (JD1 through JD6). As each switch is toggled to on position, verify LED illuminates and 28VDC appears on JD connector.

6.2.4 Remove 28VDC from J28. Verify all switches are in off position.

6.2.5 Set Power Supply for 125VDC and apply to J125-1 (+) and J125-2 (-).

6.2.6 Test each circuit by toggling switch to on and verify that LED illuminates and 125VDC appears on JD connector.

6.2.7 Remove power and all connections.

6.3 ******TEST COMPLETE ******

7. NOTES

7.1 None at this time

8. ATTACHMENTS

8.1 None at this time