g GE Energy	**Functional Testing Specification**
Parts & Repair Services ***Louisville, KY***	**LOU-GED-IS200CPFP**

Test Procedure for an IS200CPFPG1A card

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

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1. SCOPE

1.1 This is a functional testing procedure for an IS200CPFPG1A 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 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 85 DMM (or Equivalent)
1		27Khz @ 48Vac power source (GDPA card)

6. TESTING PROCESS

6.1 Setup

6.1.1 Connect 27Khz @ 48 VAC power source (GDPA card) to connector J1.

6.1.2 Jumper stab-on connectors E1 to E2 and E3 to E4.

Note: Check unit for any shorted components before applying power to unit. If at any point a portion of test fails, troubleshoot and repair problem before continuing testing.

6.2 Testing Procedure

6.2.1 Apply power to unit.

6.2.2 Verify that the following LED's are illuminated: DS1 through DS7, DS12, and DS13.

6.2.3 Using AC VOLTS function of DMM check from pin 1 to pin 3 of connector J1A and J2 through J8 48 VAC.

6.2.4 Make sure U1 (PWR OK) optical transmitter is on (red light inside).

6.2.5 Using Ohm's function of DMM check for continuity between pin 1 and pin 2, and pin 3 and pin 4 of both connectors J9 and J10.

6.2.6 Remove power from unit.

6.2.7 Using Ohm's function of DMM check for continuity from CHAS connector to pin 2 of connectors J1 through J8 and J1A. Also check continuity from CHAS to TP3.

6.2.8 ******TEST COMPLETE***

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

7. NOTES

7.1 None at this time?

8. ATTACHMENTS

8.1 None at this time?