g GE Energy	**Functional Testing Specification**
Parts & Repair Operations ***Louisville, KY***	**LOU-GED-DS200DPCA**

Test Procedure for DS200DPCA

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PREPARED BY	REVIEWED BY	REVIEWED BY	QUALITY APPROVAL
Cristyn Edlin			Charlie Wade
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1. SCOPE

1.1 This is a functional testing procedure for a DS200DPCA.

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 DS200DPCA schematic

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)

6. TEST PROCESS

6.1 Setup

6.1.1 Place JP1 in the “in” position.

6.1.2 Place S1 in the “off” position.

6.2 Trace Continuity Test

6.2.1 Measure for resistance between the following points, must be < 2 ohms.

6.2.2 1PL-1 to 101PL-1.

6.2.3 1PL-2 to 101PL-2.

6.2.4 1PL-3 to 101PL-3.

6.2.5 1PL-4 to 101PL-4.

6.2.6 1PL-5 to 101PL-5.

6.2.7 1PL-6 to 101PL-6.

6.2.8 1PL-7 to 101PL-7.

6.2.9 1PL-8 to 101PL-8.

6.2.10 1PL-9 to 101PL-9.

6.2.11 1PL-10 to 101PL-10.

6.2.12 1PL-11 to 101PL-11.

6.2.13 1PL-12 to 101PL-12.

6.2.14 1PL-13 to 101PL-13.

6.2.15 1PL-14 to 101PL-14.

6.2.16 1PL-15 to 101PL-15.

6.2.17 1PL-16 to 101PL-16.

6.2.18 1PL-17 to 101PL-17.

6.2.19 1PL-18 to 101PL-18.

6.2.20 1PL-19 to 101PL-19.

6.2.21 1PL-20 to 101PL-20.

6.2.22 1PL-21 to 101PL-21.

6.2.23 1PL-22 to 101PL-22.

6.2.24 1PL-23 to 101PL-23.

6.2.25 1PL-24 to 101PL-24.

6.2.26 1PL-25 to 101PL-25.

6.2.27 1PL-26 to 101PL-26.

6.2.28 2PL-1 to 102PL-1.

6.2.29 2PL-2 to 102PL-2.

6.2.30 2PL-3 to 102PL-3.

6.2.31 2PL-4 to 102PL-4.

6.2.32 2PL-5 to 102PL-5.

6.2.33 2PL-6 to 102PL-6.

6.2.34 2PL-7 to 102PL-7.

6.2.35 2PL-8 to 102PL-8.

6.2.36 2PL-9 to 102PL-9.

6.2.37 2PL-10 to 102PL-10.

6.2.38 2PL-11 to 102PL-11.

6.2.39 2PL-12 to 102PL-12.

6.2.40 2PL-13 to 102PL-13.

6.2.41 2PL-14 to 102PL-14.

6.2.42 2PL-15 to 102PL-15.

6.2.43 2PL-16 to 102PL-16.

6.2.44 2PL-17 to 102PL-17.

6.2.45 2PL-18 to 102PL-18.

6.2.46 2PL-19 to 102PL-19.

6.2.47 2PL-20 to 102PL-20.

6.2.48 2PL-21 to 102PL-21.

6.2.49 2PL-22 to 102PL-22.

6.2.50 2PL-23 to 102PL-23.

6.2.51 2PL-24 to 102PL-24.

6.2.52 2PL-25 to 102PL-25.

6.2.53 2PL-26 to 102PL-26.

6.2.54 CPT-1 to TX9.

6.2.55 CPT-2 to TX11.

6.2.56 CPT-3 to TX10.

6.2.57 LANTB-1 to LANPL-1.

6.2.58 LANTB-2 to LANPL-2.

6.2.59 LANTB-3 to LANPL-3.

6.2.60 CHASSIS EYE-1.

6.2.61 CHASSIS EYE-2.

6.2.62 CHASSIS EYE-3.

6.2.63 GENTB-1 to 5PL-1.

6.2.64 GENTB-2 to 5PL-2.

6.2.65 GENTB-3 to 5PL-3.

6.2.66 SW1 to SW3.

6.2.67 SW2 to SW4.

6.2.68 TX1 to FXTB-1.

6.2.69 TX3 to TX5.

6.2.70 TX4 to TX6.

6.2.71 Component Measurement and Operability Test

6.2.71.1 Verify 150 Ohms (+-2%) between GENTB-1 and GENTB-2.

6.2.71.2 Verify .1uf between CHASSIS and GENTB-3.

6.2.71.3 Verify .1uf between CHASSIS and LANTB-3.

6.2.71.4 Verify an open (OL on the meter) between TX8 and FXTB-3.

6.2.71.5 Verify that the path between TX8 and FXTB-3 closes (<1 Ohm on the meter) when S1 is switched to the “on” position.

6.2.72 ***Test complete***

7. NOTES

7.1 None at this time.

8. ATTACHMENTS

8.1 None at this time.