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GE Energy

Functional Testing Specification*Parts & Repair Services
Louisville, KY***LOU-GED-IS200SCTT****Test Procedure for an IS200SCTTG1xxx Static Charge Module.****DOCUMENT REVISION STATUS:** Determined by the last entry in the "REV" and "DATE" column

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DATE 11/7/2012	DATE	DATE	DATE 11/7/2012

<p>LOU-GED-IS200SCTT Rev A</p>	<p>g</p> <p>GE Energy <i>Parts & Repair Services</i> <i>Louisville, KY</i></p>	<p>Page 2 of 3</p>
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1. SCOPE

1.1 This is a functional testing procedure for an **IS200SCTTG1xxx** Innovation Static Charge Module.

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
3	*	Fluke 87 DMM (or Equivalent)
1	*	Frequency Generator

<p>LOU-GED-IS200SCTT Rev A</p>	<p>g</p> <p>GE Energy <i>Parts & Repair Services</i> <i>Louisville, KY</i></p>	<p>Page 3 of 3</p>
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6. TESTING PROCESS

6.1 Testing Procedure

- 6.1.1 Using Multimeter and schematic, static check all components on circuit board.
- 6.1.2 Connect Multimeter, set to measure DC Volts, positive lead to POS eyelet E1 and negative lead to NEG eyelet E3.
- 6.1.3 Connect frequency generator, 27 KHz square wave at 0.5 Vpp, to input plug of Transformer T1 pin 1 and 2. Output should be 25 VDC +/- 4 VDC.
- 6.1.4 Connect frequency generator, 27 KHz square wave at 2.25 Vpp, to input plug of Transformer T1 pin 3 and 4. Output should be 25 VDC +/- 4 VDC.
- 6.1.5 Connect frequency generator, 27 KHz square wave at 2.25 Vpp, to input plug of Transformer T1 pin 1 and 2. Output should be 125 VDC +/- 4 VDC.
- 6.1.6 Connect frequency generator, 27 KHz square wave at 2.25 Vpp, to input plug of Transformer T1 pin 3 and 4. Output should be 125 VDC +/- 4 VDC.
- 6.1.7 Connect frequency generator, 27 KHz square wave at 5 Vpp, to input plug of Transformer T1 pin 1 and 2. Output should be 265 VDC +/- 10 VDC.
- 6.1.8 Connect frequency generator, 27 KHz square wave at 5 Vpp, to input plug of Transformer T1 pin 3 and 4. Output should be 265 VDC +/- 10 VDC.

6.2 ***TEST COMPLETE***

7. NOTES

- 7.1 None at this time.

8. ATTACHMENTS

- 8.1 None at this time.