g	GE Energy	y	Functional T	esting Spe	ecification		
	Parts & Repair Services Louisville, KY		LOU-G	ED-IS200EX	AM		
	Test Procedure for an IS2	00EXAMG1x Exci	er Attenuation M	odule.			
	MENT REVISION STATUS: Determined by the last	entry in the "REV" and			1		
REV.	DESCRIPTION			GNATURE	REV. DATE		
Α	Initial release. Covers <b>G1A</b> and <b>G1B</b> vers	ions of this type of	card. J.	Francis	01/13/2014		
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### 1. SCOPE

1.1 This is a functional testing procedure for an IS200EXAMG1x Excitation Attenuation 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.

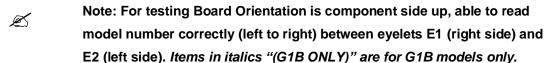
Qty	Reference #	Description
1		Fluke 87 DMM (or Equivalent)
1		Tenma Dual Output Power Supply ( or Equivalent)

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#### **TESTING PROCESS** 6.

- 6.1 Setup Procedure
  - Place Jumpers JP1, JP2, and JP3 to positions 1 to 2.
- 6.2 Testing Procedure Static checks



- 6.2.1 Using Fluke 87 DMM (or Equivalent), set for Resistance (Ohms) function, check for 17.9 Kohms -/+ 200 Ohms from eyelet E1 to connector J1-1.
- 6.2.2 Using Fluke 87 DMM (or Equivalent), set for Resistance (Ohms) function, check for 17.9 Kohms -/+ 200 Ohms from eyelet E2 to connector J1-1.
- 6.2.3 Using Fluke 87 DMM (or Equivalent), set for Resistance (Ohms) function, check for continuity between screw-on connector TB1 and connector J2 shield.
- 6.2.4 Using Fluke 87 DMM (or Equivalent), set for Resistance (Ohms) function, check for 2 Kohms -/+ 20 Ohms between jumper JP1 and connector J1-1.
- 6.2.5 Using Fluke 87 DMM (or Equivalent), set for Resistance (Ohms) function, check for 2 Kohms -/+ 20 Ohms between jumper JP2 and connector J1-1.
- Using Fluke 87 DMM (or Equivalent), set for Resistance (Ohms) function, check for 1 6.2.6 Kohms -/+ 20 Ohms between jumper JP3 and connector J1-2.
- 6.2.7 Using Fluke 87 DMM (or Equivalent), set for Resistance (Ohms) function, check for 5.8 Kohms -/+ 50 Ohms between connector J1-2 and connector J2-4.
- 6.2.8 Using Fluke 87 DMM (or Equivalent), set for Resistance (Ohms) function, check for 5.8 Kohms -/+ 50 Ohms between connector J1-2 and connector J2-9.
- 6.2.9 Using Fluke 87 DMM (or Equivalent), set for Resistance (Ohms) function, check for continuity between connector J1-3 and left side of Capacitor C2.
- 6.2.10 Using Fluke 87 DMM (or Equivalent), set for Resistance (Ohms) function, check for continuity between connector J1-3 and right side of Capacitor C4.
- 6.2.11 (G1B ONLY) Using Fluke 87 DMM (or Equivalent), set for Resistance (Ohms) function, check for an open (more than 1 Mohm) from screw-on connector TB1 to jumper JP3.
- 6.2.12 (G1B ONLY) Using Fluke 87 DMM (or Equivalent), set for Resistance (Ohms) function, check for 13.6 Kohms -/+ 150 Ohms from connector J1-3 to top side of Resistor R27.

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# 6.3 Testing Procedure - Functional Testing

- **6.3.1** Connect Power Supply output, set for 24 VDC -/+ 0.5VDC, positive lead to connector J2-3 and to J1-2.
- **6.3.2** Connect Power Supply output negative lead to connector J2-8. Should hear Relay K1 energize.
- **6.3.3** Connect Fluke 87 DMM (or Equivalent), set for DC Volt function, negative meter lead to Power Supply output negative lead.
- 6.3.4 Using Fluke 87 DMM (or Equivalent), set for DC Volt function, check for 0 Volts on J1-1 and +24 VDC -/+ 0.5 VDC on J1-2.
- **6.3.5** Remove Power Supply output negative lead from connector J2-8. Should hear Relay K1 de-energize.
- 6.3.6 Using Fluke 87 DMM (or Equivalent), set for DC Volt function, check for +24 VDC -/+ 0.5 VDC on J1-1 and 0 Volts on J1-2.
- **6.3.7 G1A** testing complete. *G1B* units proceed to step 6.2.2.8 for testing.
- **6.3.8** (G1B ONLY) Using Fluke 87 DMM (or Equivalent), set for DC Volt function, check for +24 VDC -/+ 0.5 VDC on J1-1.
- **6.3.9 (G1B ONLY)** Connect Power Supply output negative lead to connector J2-7. Should hear Relay K2 energize.
- **6.3.10** (G1B ONLY) Using Fluke 87 DMM (or Equivalent), set for DC Volt function, check for 0 Volts on J1-1.

### 6.4 \*\*\*TEST COMPLETE \*\*\*

## 7. NOTES

**7.1** None at this time.

## 8. ATTACHMENTS

**8.1** None at this time.