g GE Industrial Systems	**Functional Testing Specification**
Renewal Services ***Louisville,KY***	**LOU–GED-193X276xx**

Test Procedure for a 193X276xx card

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

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A	Initial release	D. Laemmle	07/09/02
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Functional test procedure for a 193X276xx voltage isolator card.

1. SCOPE

1.1 This is a functional testing procedure for a 193X276xx voltage isolator 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 224X378AA

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 or cracked
4.2.1.2 Terminal strips / connectors broken or cracked
4.2.1.3 Loose wires
4.2.1.4 Components visually damaged
4.2.1.5 Capacitors leaking
4.2.1.6 Solder joints damaged or cold
4.2.1.7 Circuit board burned or de-laminated
4.2.1.8 Printed wire runs 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		+/- 20v DC +/- 5% Power Supply
1		Adjustable P.S. 0-10v DC
1		Tektronix 2215A Scope or equiv.
1		Rainbow box
1		193X card adapter

6. TESTING PROCESS

6.1 Setup

6.1.1

6.2 Testing Procedure

6.2.1 ISOLATOR SECTION Apply +20v supply to tab 31; -20v supply to tab 2; com to to tab 15.

6.2.2 Connect scope com to tab 15. Probe tab 18 for approximately 20v p-p square wave @ 5 Khz +/- 32%.

6.2.3 Connect Fluke meter for DC volts –to tab 11 + to tab 5. With no input, voltage should be 0v.

6.2.4 Apply +10v DC to Tab 27, Minus (-) to Tab 22. Output on meter should be +9.0v to 9.6v. Change input volts to +5v. Output should be +4.5v to 4.8v. Remove input.

6.2.5 AMPLIFIER SECTION Apply input voltage + 10v to Tab 9, minus (-) to tab 15. Output at Tab 3 should be –10v +/- 10%. (Unity Gain)

6.3 ***TEST COMPLETE ***

7. NOTES