g GE Industrial Systems	**Functional Testing Specification**
Renewal Services ***Louisville, KY***	**LOU–GED-44C359029-A**

Test Procedure for a 44C359029G01

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

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	Paul Kelley	8/29/2003
B	Corrected relay contact test.	Paul Kelley	9/24/2003
C			

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DATE	**DATE**	**DATE**	**DATE**
8/28/2003	8/28/2003		9/9/03

Functional test procedure for 44C359029G01

1. SCOPE

1.1 This is a functional testing procedure for a 44C359029G01 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

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		44C359029G01 Test Strip
1		0 to 150 VDC Supply
1		FLUKE 85 DMM

6. TESTING PROCESS

6.1 Setup

6.1.1 Connect the terminal strip as shown in Fig. 1 below. Set the power supply to 0 volts. Connect the positive and negative of the supply to the indicated points as shown in the diagram.

Note:

6.2 Testing Procedure

6.2.1 On the bottom terminal strip verify F to H indicate open relay contacts and F to G indicate closed relay contacts.

6.2.2 On the side terminal strip verify B to C indicate open relay contacts and B to A indicate closed relay contacts.

6.2.3 Raise the power supply to 150 volts.

6.2.4 On the bottom terminal strip verify F to H indicate closed relay contacts and F to G indicate open relay contacts.

6.2.5 On the side terminal strip verify B to C indicate closed relay contacts and B to A indicate open relay contacts.

6.2.6 Verify 92 to 105 volts across the zener as shown in Fig. 1.

6.2.7 Lower the power supply to 90 volts.

6.2.8 On the bottom terminal strip verify F to H indicate open relay contacts and F to G indicate closed relay contacts.

6.2.9 On the side terminal strip verify B to C indicate open relay contacts and B to A indicate closed relay contacts.

6.2.10 Remove all power and connections made for the test.

6.3 ***TEST COMPLETE ***

7. NOTES

8. Drawings:

Fig. 1