g GE Industrial Systems *Renewal Services* *Louisville,KY*	**Functional Testing Specification** **LOU–GED-117D7344**

Test Procedure for a

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

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release, Re-write of Salem handwritten procedure	D. Laemmle	12/2/03
B			
C			

PREPARED BY	REVIEWED BY	REVIEWED BY	QUALITY APPROVAL
D. Laemmle			Robert Dunell
DATE	**DATE**	**DATE**	**DATE**
12/2/03			12/2/03

1. SCOPE

1.1 This is a functional testing procedure for a 3Khz Oscillator Output #3Card.

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, 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		Function Generator

6. TESTING PROCESS

6.1 Setup

6.1.1

Note:

6.2 Testing Procedure

6.2.1 Input 3 Khz 6VRMS sine wave (approx 17v p-p) from pin 41 to pin13.

6.2.2 Measure approx. 3 VRMS (8.5v p-p) from pin 19 (com) to pin 41 or pin 13.

6.2.3 Measure TP1 to TP2 to be approx. 3.2VRMS (9-10v p-p).

6.2.4 Measure each pin 1,25,29,33, and 37 to pin 3,23,27,31,and35 to be approx 3.2 VRMS (9-10v p-p).

6.2.5 Measure pins 5 to 11 and pins 7 to 11 approx. 5.17 VRMS (14.6 v p-p) with no load. If 500 ohms is put between 5 & 11 and 7 & 11 measure approx. 4.4 VRMS (12.5 v p-p).

6.2.6

6.3 Post Testing Burn-in Required _X_ Yes ___ No

Note: All MARK I, II, & III Turbine related cards require a post testing burn-in of 100 hours.

6.3.1 Apply BUS or Operational power to the card for a period of 100 hours.

6.3.2 Re-test card while warm using the above procedure.

*6.4 ***TEST COMPLETE ****

7. NOTES

7.1

8. ATTACHMENTS

8.1