g GE Energy ***Parts & Repair Operations*** ***Louisville, KY***	**Functional Testing Specification** **LOU-GEF-MC2000** **Rack Power Supply**

Test Procedure for running a part program in the MC2000 control.

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Test Procedure for running a part program in the MC2000 control.

1. SCOPE

1.1 This is a functional test procedure for testing the MC2000 control with all it's standard cards.

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.

4. ENGINEERING REQUIREMENTS

4.1 Description

4.1.1 MC2000 is a positioning control used to control two or more drive axis.

4.2 Equipment Cleaning

4.2.1 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.

4.3 Equipment Inspection

4.3.1 Equipment should be visually inspected for any defects prior to applying power. This inspection should include the following as a minimum:

4.3.1.1 Wires broken or cracked
4.3.1.2 Terminal strips / connectors broken or cracked
4.3.1.3 Loose wires
4.3.1.4 Components visually damaged
4.3.1.5 Capacitors leaking
4.3.1.6 Solder joints damaged or cold
4.3.1.7 Circuit board burned or de-laminated
4.3.1.8 Printed wire runs burned or damaged

EQUIPMENT REQUIRED

4.4 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	MC2000 Control	Test Control with Axis cart

5. TESTING PROCESS

5.1 Test Procedure

5.1.1 Ensure control is set up in it's proper application environment.

5.1.1.1 Correct bubble boards installed and properly strapped.

5.1.2 Verify the control to see if it is functioning correctly.

5.1.2.1 Turn on and run part program for a couple minutes.

5.1.3 Once functionally has been verified, remove the Known Good Board or assembly and install the Unit Under Test.

5.1.4 Turn on control and run a part program for eight hours.

5.1.4.1 Power Supplies have been known to fail after a hour or two. They should easily handle being run for 8 hours.

5.1.5 If power supply passes burn in, unit should be good to ship.

5.2 ***TEST COMPLETE ***

6. NOTES

Assembly can be run in any MC2000 control that has drive simulators.