



GE Energy

Functional Testing Specification

*Inspection & Repair Services
Louisville, KY*

LOU-GEF-CMC-2000-1-B

Test Procedure for CMC-2000-1-B

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DATE 01/05/2009	DATE	DATE	DATE 01/05/2009

Test Procedure for a CMC-2000-1-B Amplifier

1. SCOPE

1.1 This is a functional testing procedure for CMC-2000-1-B Amplifier.

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

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	CMC-2000-1-B	Encoder Feedback Drive
1	Cable Set	CMC-2001 Cable Set
1	Variac	110vac Variac

6. TESTING PROCESS

6.1 Connection Setup

6.1.1 Before hooking up amplifier ohm check the dipswitches.

6.2 Used existing CMC-0000 cable set for testing. Red wire on Power Supply to COM and Black wire to POS (12vdc). Plug Encoder cable from CMC-2000 into Encoder.

6.3 Used CMC-0000-1-B as Master and set CMC-2000-1-B as slave.

6.4 Powered up both units and established communications with CCS. There is not a file to download for this unit (CMC-2000).

6.5 Turned Motor/Encoder in both directions, and watched feedback lights, in both directions, for feedback.

6.6 Toggled SW12 on Test-box to enable unit, bottom two lights go out (Fault light and unlabeled light).

6.7 Used 0DG1 command to see input activity. Toggling SW1 through SW12 one at a time, will produce activity reported on screen.

*****TEST COMPLETE *****