g GE Energy	**Functional Testing Specification**
Parts & Repair Operations ***Louisville, KY***	**LOU-GEF-GCS-PS**

Test Procedure for MC2000 Graphic Control Station Power Supply

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Cristyn Edlin			Charlie Wade
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1. SCOPE

1.1 This is a functional testing procedure for a MC2000 Graphic Control Station Power Supply. This encompasses model # 259A9944P1.

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 Check board's electronic folder for more information

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 site specific SRA's 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		AC power cable with terminal connections and fuse.
1		Series Six Power Supply passive test load pack.
1		Active test load

6. Testing

6.1 SETUP

6.1.1 Connect AC cable to the terminal strip in accordance with chart 1.

TB1-1	TB1-2	TB1-3
Hot	Neutral	Ground

Chart 1

6.1.2 Connect Series six passive test load pack across terminals TB1-4 through TB1-7 with the common side connected to TB1-7.

6.1.3 Ensure that the amperage setting of the active test load is set to 0 Amps.

6.1.4 Connect the active test load with negative to TB1-8 and positive to TB1-9.

6.2 TEST PROCESS

6.2.1 Plug in the AC cable.

6.2.2 Slowly increase that amperage setting of the active load to 15 Amps.

6.2.3 TB1-7 and TB1-8 are both the same ground.

6.2.4 Measure the voltages from ground in accordance with chart 2.

TB1-4	TB1-5	TB1-6	TB1-9
12VDC	-12VDC	12VDC	5VDC

Chart 2

7. NOTES

7.1 When testing the next unit, please put max ripple percentages (Section 6.2.4) you would normally see on the DC output voltages after unit is repaired. C. Wade

8. ATTACHMENTS

8.1 None at this time