g	GE Energy	**Functional Testing Specification**

Parts & Repair Operations *Louisville, KY*		**LOU-GEF-IC600xx949** **ASCII Card**

Test Procedure for

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

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	Cristyn Edlin	02/01/08
B			
C			

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DATE 02/01/08	DATE	DATE	DATE 2/4/2008

1. SCOPE

1.1 This is a functional testing procedure for a Series Six ASCII-BASIC 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, 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		Series Six Work-Master computer
1		Series Six Operator Interface Terminal
1		Series Six CPU-1 LOCAL rack

6. **SETUP**

6.1 Ensure that the power to the CPU-1 <u>LOCAL</u> rack is off.

6.2 Using the dipswitches in the back plane of the rack, ensure that the addressing for the ASCII/BASIC card is set properly. **All 7 dipswitches should be in the closed position**.

6.3 On the ASCII/BASIC card, there are 3 sets of dipswitches, which are labeled A, B and C. The following chart illustrates the positions to which these dipswitches are to be set.

X=Opened, L =Closed								
A	X	L	X	X	X	X	L	L
B	X	X	X	X	L	X	X	X	X
C	L	L						

Chart 1

6.4 In the C: prompt of the Work-Master, type "ABM6" and press enter.

6.5 Follow the instructions of the Work-Master until you get to the "Basic-Master 6" supervisor menu.

7. **TEST PROCESS**

7.1 After ensuring dipswitch settings are set in accordance with section 6, insert the card into the slot.

7.2 Connect the communications cable labeled "Top" to port 1 (the top port) of the card.

7.3 Connect the communications cable labeled "Bottom" to port 2 (the bottom port) of the card.

7.4 Turn on the power to the CPU-1 <u>LOCAL</u> rack.

7.5 Allow the card approximately 5-10 seconds to perform the "self-test" function.

7.6 Press "F6" to enter the Load/Store/Verify screen.

7.7 Press "F5" to enter the clear function.

7.8 Press "Y" to clear the memory of the ASCII/BASIC card. Once the memory is cleared, "Memory cleared" should show up in the bottom left corner of the screen.

7.9 Press "F1" to enter the load function.

7.10 Type "abm\screens.abm" and press enter. It should take approximately 1 minute for the "screens.abm" program to load. Once the "screens.abm" program is loaded, the Work-Master should beep.

7.11 After the beep, press the escape key to enter the supervisor menu.

7.12 Press "F2" to enter the "Smart Terminal" screen.

7.13 Press "F2" again to run the "screens.abm" program. The "screens.abm" program should begin drawing screens on the Operator Interface Terminal. This should take approximately 2 minutes. It will then be recommended by the Operator Interface Terminal to clear the memory then load and run the "program.abm" file.

7.14 Press the escape key to enter the supervisor menu.

7.15 Press "F6" to enter the Load/Store/Verify screen.

7.16 Press "F5" to enter the clear function.

7.17 Press "Y" to clear the memory of the ASCII/BASIC card. Once the memory is cleared, "Memory cleared" should show up in the bottom left corner of the screen.

7.18 Press "F1" to enter the load function.

7.19 Type "abm\program.abm" and press enter. It should take approximately 1 minute for the "program.abm" program to load. Once the "program.abm" program is loaded, the Work-Master should beep.

7.20 After the beep, press the escape key to enter the supervisor menu.

7.21 Press "F2" to enter the "Smart Terminal" screen.

7.22 Press "F2" again to run the "program.abm" program.

7.23 Identify the orange "F" keys on the Operator Interface Terminal.

7.24 Ensure that the card able to move from screen to screen using the "F" keys in accordance with the Operator Interface Terminal "Main Menu".

7.25 Press the escape key to enter the supervisor menu.

7.26 Press "F6" to enter the Load/Store/Verify screen.

7.27 Press "F5" to enter the clear function.

7.28 Press "Y" to clear the memory of the ASCII/BASIC card.

7.29 Turn off the power to the CPU-1 <u>LOCAL</u> rack.

7.30 ***TEST COMPLETE***

8. <u>NOTES</u>

9. <u>ATTACHMENTS</u>