g		GE Energy		Functional Testing Specification				
	Parts & Repa Louisville, KY		LOU-GEF-IC600xx948					
	Test I	Procedure for a Series	s Six I/O Comm	unications Co	ontrol card			
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#### 1. SCOPE

1.1 This is a functional testing procedure for a Series Six IC600xx948 I/O CCM 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 CPU-1 Local Rack
1		Series Six Work-Master computer
1		Series Six Operator Interface Terminal

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## 6. Testing

#### 6.1 Setup

- **6.1.1** Ensure that the power to the CPU-1 LOCAL rack is off.
- **6.1.2** On the I/O CCM 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=Ope	ened, L =C	losed								
Α	X	L	L	X	X	L	X	L		
В	Х	L	Х	Х	L	X	L	Х	Х	
C	X	X								

Chart 1

- **6.1.3** In the C: prompt of the Work-Master, type "2" and press enter.
- **6.1.4** Follow the instructions of the Work-Master until you get to the "Basic-Master 6" supervisor menu.

## 6.2 TEST PROCESS

- **6.2.1** After ensuring dipswitch settings are set in accordance with section 6, insert the card into slot 6.
- **6.2.2** Connect the communications cable labeled "Top" to port 1 (the top port) of the card.
- **6.2.3** Connect the communications cable labeled "Bottom" to port 2 (the bottom port) of the card.
- **6.2.4** Turn on the power to the CPU-1 LOCAL rack.
- **6.2.5** Allow the card approximately 5-10 seconds to perform the "self-test" function.
- **6.2.6** Press "F6" to enter the Load/Store/Verify screen.
- **6.2.7** Press "F5" to enter the clear function.
- **6.2.8** 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.
- **6.2.9** Press "F1" to enter the load function.
- **6.2.10** Type "C:\ABM\1" and press enter. It should take approximately 1 minute for the ABM program 1 to load. Once program 1 is loaded, the Work-Master should beep.
- **6.2.11** After the beep, press the escape key to enter the supervisor menu.
- **6.2.12** Press "F2" to enter the "Smart Terminal" screen.
- 6.2.13 Press "F2" again to run program 1. Program 1should 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 "C:\ABM\2" file.
- **6.2.14** Press the escape key to enter the supervisor menu.

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- **6.2.15** Press "F6" to enter the Load/Store/Verify screen.
- **6.2.16** Press "F5" to enter the clear function.
- **6.2.17** 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.
- **6.2.18** Press "F1" to enter the load function.
- **6.2.19** Type "C:\ABM\2" and press enter. It should take approximately 1 minute for program 2 to load. Once program 2 is loaded, the Work-Master should beep.
- **6.2.20** After the beep, press the escape key to enter the supervisor menu.
- **6.2.21** Press "F2" to enter the "Smart Terminal" screen.
- **6.2.22** Press "F2" again to run program 2.
- **6.2.23** Identify the orange "F" keys on the Operator Interface Terminal.
- **6.2.24** Press "F" key 3 of the OIT to see the I/O CCM data page.
- **6.2.25** Ensure that both ports A and B are having "good conversations" and no "bad conversations" or "header retries".
- **6.2.26** Let card run for at least one hour with good conversations.
- **6.2.27** Press the escape key to enter the supervisor menu.
- **6.2.28** Press "F6" to enter the Load/Store/Verify screen.
- **6.2.29** Press "F5" to enter the clear function.
- **6.2.30** Press "Y" to clear the memory of the ASCII/BASIC card.
- **6.2.31** Turn off the power to the CPU-1 LOCAL rack.
- 6.3 \*\*\*TEST COMPLETE\*\*\*

## 7. NOTES

7.1 None at this time

# 8. ATTACHMENTS

8.1 None at this time