g		GE Energy	Fu	ınctional Testing Sp	ecification	
Parts & Repair Operations Louisville, KY				LOU-GEF-IC600xx801		
		Test Procedure for an	IC600 Remote I/O R	eceiver card.		
	MENT REVISION STATUS	: Determined by the last ent	ry in the "REV" and "DA			
REV.	Letter and a second	DESCRIPTION		SIGNATURE	REV. DATE	
Α	Initial release			Cristyn Edlin	3/7/2011	
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#### 1. SCOPE

**1.1** This is a functional testing procedure for a 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** 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	H188889	CPU-3 Local 1 and Local 3
1		Twisted pair cable

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### 6. SETUP

- **6.1** See the notes section for more thorough jumper information.
- 6.2 On the customer card, set Jumpers as follows. 1-2, 4-6, 7-8, 10-11, 13-14, 16-17, 19-20, 23-24, 25-26, 28-29, 31-32, 34-35, 37-38, 40-41, 43-44, 46-47, 50-51, 54-55, 62-63, 67-66, 74-75, 78-79, 81-82, 83-84, 85-84, 87-89, 90-91, 96-97, 99-100, 103-104, 68-CDB, 57-CDA, 60-CTSA and 73-CSTB.

## 7. TEST PROCESS

- **7.1** Turn off power to CPU-3 Local 3.
- **7.2** Remove the shop card from slot 1.
- 7.3 Install the customer card into slot 1.
- 7.4 Connect the termination plug to J4.
- 7.5 Connect the Data cable to J3.
- 7.6 Turn on power to CPU-3 Local 3.
- **7.7** Ensure that the indicator lights of the I/O cards throughout the CPU-3 system light up in a scrolling fashion.
- **7.8** Allow system to run for a minimum of 15 minutes.
- 7.9 Turn off power to CPU-3 Local 3 and Local 1.
- 7.10 Remove the customer card from slot 1 of CPU-3 Local 3.
- 7.11 Remove the Remote I/O Driver card from slot 3 of CPU-3 Local 1.
- **7.12** Change the following jumper settings.
  - **7.10.1** For the Remote I/O Receiver card: **65-66, 63-64, 49-50 and 102-103.**
  - **7.10.2** For the Remote I/O Driver card: **36-37**, **38-39**, **42-43** and **44-45**.
- 7.13 Reinstall the customer card into slot 1 of CPU-3 Local 3.
- 7.14 Reinstall the Remote I/O Driver card into slot 3 of CPU-3 Local 1.
- **7.15** Replaced the RS-232 cable with the twisted pair cable.
- 7.16 Turn on power to CPU-3 Local 3 and Local 1.
- **7.17** Ensure that the indicator lights of the I/O cards throughout the CPU-3 system light up in a scrolling fashion.
- **7.18** Allow system to run for a minimum of 15 minutes.
- **7.19** Turn off power to CPU-3 Local 3 and Local 1.
- 7.20 Remove the customer card from slot 1 of CPU-3 Local 3.
- 7.21 Remove the Remote I/O Driver card from slot 3 of CPU-3 Local 1.

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**7.22** Change the following jumper settings.

7.10.1 For the Remote I/O Receiver card: 66-67, 62-63, 50-51 and 103-104.
7.10.2 For the Remote I/O Driver card: 35-37, 39-40, 41-43 and 45-46.

- **7.23** Install the shop card into slot 1 of CPU-3 Local 3 and the Remote I/O Driver card into slot 3 of CPU-3 Local 1.
- **7.24** Turn on power to CPU-3 Local 3 and Local 1.
- 7.25 Test complete.

## 8. NOTES

**8.1** Jumper settings for RS-232 operation:

8.1.1 For the Remote I/O Receiver card: 66-67, 62-63, 50-51 and 103-104.
8.1.2 For the Remote I/O Driver card: 35-37, 39-40, 41-43 and 45-46.

**8.2** Jumper settings for twisted pair operation:

8.2.1 For the Remote I/O Receiver card: 65-66, 63-64, 49-50 and 102-103.
8.2.2 For the Remote I/O Driver card: 36-37, 38-39, 42-43 and 44-45.

**8.3** Jumper settings common to each:

8.3.1 For the Remote I/O Receiver card: 1-2, 4-5, 7-8, 10-11, 13-14, 16-17, 19-20, 23-24, 25-26, 28-29, 31-32, 34-35, 37-38, 40-41, 43-44, 46-47, 68-CDB, 57-CDA, 60-CTSA, 72-CSTB, 54-55, 74-75, 81-82, 83-84, 87-89, 90-91, 96-97, 99-100,

8.3.2 For the Remote I/O Driver card: 1-2, 6-7, 9-10, 12-13, 15-16, 18-19, 21-22, 24-25, 26-27, 47-49, 50-30, 51-33.

## 9. ATTACHMENTS

**9.1** None at this time.