g		GE Energy		Functional T	esting Spe	ecification
Parts & Repair Services Louisville, KY			LOU-GED-IS200TTSA			
		Test Procedure f	or a Trip Server	Interface card		
DOCUI	MENT REVISION STATUS	: Determined by the last e	ntry in the "REV" a	nd "DATE" column		
REV.		DESCRIPTION			GNATURE	REV. DATE
Α	Initial release			M	. Starling	7/29/2014
В						
С						
Hard co	YRIGHT GENERAL ELECTI pries are uncontrolled and are i		NS PROPRIETARY IN	JEORMATION OF GENE	RAI ELECTRIC	COMPANY AND
	MAY NOT BE USED OR DISCLOSED TO OTHERS, EXCEPT WITH THE WRITTEN PERMISSION OF GENERAL ELECTRIC COMPANY.  PREPARED BY REVIEWED BY QUALITY APPROVAL					
M. Sta	arling				Charlie Wa	de
<b>DATE</b> 7/29/	14	DATE	DATE		<b>DATE</b> 7/31/2014	

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#### 1. SCOPE

**1.1** This is a functional testing procedure for a Trip Server Interface 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		Fluke 87 DMM (or Equivalent)
1		15 VDC Power Supply

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# 6. Modifications/Upgrades

**6.1** None at this time.

### 7. Testing Process

- **7.1** Setup: Place properly numbered TB screw terminals on TB1 and TB2 to make locating terminal number easier.
- 7.2 Testing Procedure
  - **7.2.1** Use the following three tables for checking resistance values.

Table 1

CHECK FOR <1 ohm			
FROM	ТО		
TB1-20	TB1-21		
TB1-22	TB1-23		
TB2-28	TB2-29		
TB2-30	TB2-31		
TB2-36	TB2-37		
TB2-38	TB2-39		
TB2-44	TB2-45		
TB2-46	TB2-47		

Table 2

CHECK FOR 5K OHMS +/-5%			
FROM	ТО		
TB1-20	TB1-2		
TB2-28	TB1-2		
TB2-36	TB1-2		
TB2-44	TB1-2		
TB1-22	TB1-11		
TB2-30	TB1-11		
TB2-38	TB1-11		
TB2-46	TB1-11		

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Table 3

CHECK FOR 2.2K OHMS +/-5%			
FROM	ТО		
TB1-20	D2 CATHODE		
TB2-28	D7 CATHODE		
TB2-36	D3 CATHODE		
TB2-44	D5 CATHODE		
TB1-22	D1 ANODE		
TB2-30	D8 ANODE		
TB2-38	D4 ANODE		
TB2-46	D6 ANODE		

**7.2.2** Set up power supply for 15 VDC. Connect a meter set to measure dc volts, Positive lead to TB1-2 and Negative lead to TB1-11. Perform the checks in the following table.

15 VDC			
POS	NEG	READINGS +/- 5%	
TB1-3	TB1-4	~14.35 VDC	
TB1-4	TB1-3	~0 VDC	
TB1-5	TB1-6	~14.35 VDC	
TB1-6	TB1-5	~0 VDC	
TB1-7	TB1-8	~14.35 VDC	
TB1-8	TB1-7	~0 VDC	
TB1-9	TB1-10	~14.35 VDC	
TB1-10	TB1-9	~0 VDC	

7.3 \*\*\*TEST COMPLETE \*\*\*

# 8. Notes

**8.1** None at this time.