g		GE Energy	Functional Testing Specification
	Parts & Repair Services Louisville, KY		LOU-GED-IS200WDIIH2

Test Procedure for an IS200WDIIH2Axx card.

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DATE 3/19/2014	DATE	DATE	DATE 6/10/2014

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1. SCOPE

1.1 This is a functional testing procedure for a IS200WDIIH2Axx 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		DC Power Supply

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6. Testing Process

6.1 Setup

6.1.1 DO NOT APPLY POWER TO UNIT AT THIS TIME.

6.1.2 Adjust power supply to output 48 VDC.



Note: This test is intended for the WDIIH2 card. The H1, 3, and 4 groups may have different component values and additional circuitry which might require additional testing not provided in these procedures.

6.2 Testing Procedure

6.2.1 Resistance Output Values

6.2.1.1 With the multimeter set to measure resistance verify approx. 402 OHMs between the points provided below in Table 1. Tolerances are to be considered +/- 5% unless otherwise noted.

From	То	From	То
JE1-1	P1-Z2	JE1-3	P1-Z4
JE1-1	P1-B2	JE1-3	P1-B4
JE1-1	P1-D2	JE1-3	P1-D4
JE1-1	P1-Z6	JE1-3	P1-Z8
JE1-1	P1-B6	JE1-3	P1-B8
JE1-1	P1-D6	JE1-3	P1-D8
JE1-1	P1-Z10	JE1-3	P1-Z12
JE1-1	P1-B10	JE1-3	P1-B12
JE1-1	P1-D10	JE1-3	P1-D12
JE1-1	P1-Z14	JE1-3	P1-Z16
JE1-1	P1-B14	JE1-3	P1-B16
JE1-1	P1-D14	JE1-3	P1-D16
JE1-1	P1-Z18	JE1-3	P1-Z20
JE1-1	P1-B18	JE1-3	P1-B20
JE1-1	P1-D18	JE1-3	P1-D20
JE1-1	P1-Z22	JE1-3	P1-Z24

Table 1

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6.2.2 DC Voltage Output Values

- **6.2.2.1** With power to the power supply in the off position connect JE1-1 to the positive lead and JE1-3 to the negative lead.
- 6.2.2.2 Apply power to the card.
- **6.2.2.3** With the multimeter set to measure DC voltage verify approx. 48 VDC across the points provided below in table 2. Tolerances are to be considered +/- 5% unless otherwise noted.

From	То
P1-Z2	P1-Z4
P1-B2	P1-B4
P1-D2	P1-D4
P1-Z6	P1-Z8
P1-B6	P1-B8
P1-D6	P1-D8
P1-Z10	P1-Z12
P1-B10	P1-B12
P1-D10	P1-D12
P1-Z14	P1-Z16
P1-B14	P1-B16
P1-D14	P1-D16
P1-Z18	P1-Z20
P1-B18	P1-B20
P1-D18	P1-D20
P1-Z22	P1-Z24

Table 1

6.2.3 Sensing Circuit

6.2.3.1 Set the multimeter to measure DC voltage and verify 0.7V across P1-Z32 and P1-D24. Tolerances are to be considered +/ 5% unless otherwise noted.

6.3 ***TEST COMPLETE ***

7. Notes

7.1 None at this time.