g		GE Energy	Functional Testing Specification	
	Parts & Repair Services Louisville, KY		LOU-GED-IS200WDIIH1	

Test Procedure for an IS200WDIIH1ABB card.

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

December Newton of Arto. Scientifically in the New and Bare solution				
REV.	DESCRIPTION	SIGNATURE	REV. DATE	
Α	Initial release	D. Waddy	3/14/2013	
В				
С				
			1	

© COPYRIGHT GENERAL ELECTRIC COMPANY

Hard copies are uncontrolled and are for reference only.

PROPRIETARY INFORMATION – THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF GENERAL ELECTRIC COMPANY AND MAY NOT BE USED OR DISCLOSED TO OTHERS, EXCEPT WITH THE WRITTEN PERMISSION OF GENERAL ELECTRIC COMPANY.

PREPARED BY D. Waddy	REVIEWED BY	REVIEWED BY	QUALITY APPROVAL Charlie Wade
DATE 3/14/2013	DATE	DATE	DATE 4/1/2013

	g	
LOU-GED-IS200WDIIH1	GE Energy	Page 2 of 4
REV. A	Parts & Repair Services Louisville, KY	_

1. SCOPE

1.1 This is a functional testing procedure for a IS200WDIIH1ABB 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	H033638	Variac

LOU-GED-IS200WDIIH1

REV. A

GE Energy
Parts & Repair Services
Louisville, KY

Page 3 of 4

6. Testing Process

6.1 Setup

6.1.1 DO NOT APPLY POWER TO UNIT AT THIS TIME.

6.1.2 Adjust variac to approx. 110VAC



Note: This test is intended for the WDIIH1 card. The H2, 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. 100 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

LOU-GED-IS200WDIIH1

REV. A

GE Energy
Parts & Repair Services
Louisville, KY

Page 4 of 4

6.2.2 AC Voltage Output Values

- **6.2.2.1** With power to the variac 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 AC voltage verify approx. 110VAC 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.