GE Energy	**Functional Testing Specification**
Parts & Repair Services ***Louisville, KY***	**LOU-GED-IS200ADII**

Test Procedure for a IS200ADIIH1A ISBus Card.

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

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	M. Starling	5-13-2016
B	Added procedures for testing of IS200ISBDG1AAA	D. Waddy	8-12-2016
C			

PREPARED BY	REVIEWED BY	REVIEWED BY	QUALITY APPROVAL
M. Starling	L. Groves		L. Groves
DATE	**DATE**	**DATE**	**DATE**
5-13-2016	5-13-2016		5-13-2016

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	DMM	Fluke 87 (or equivalent)
1	H190177	IS200ADII Test Fixture

6. Modifications/Upgrades

6.1 Perform Modifications and upgrades as per product ECN's.

7. Testing Process

7.1 Setup

7.1.1 Connect power cable to IS200ADII test fixture. Make sure the power switch in the Off, down position.

7.1.2 Install UUT onto test fixture standoffs and connect 2PL, CHASSIS, P2, P3 and LNPL connectors.

7.2 Testing Procedure

7.2.1 Apply power by flipping the POWER switch to the On, up position.

7.2.2 Unit will take several seconds to boot. Boot up will be complete when the 8 STATUS LED's on the ACLI card inside the fixture are scrolling in a CCW direction.

7.2.3 The LDCC card should be displaying an FL 202__SYINLOSS fault. This is normal and is the message that is being communicated through the ADII.

7.2.4 At this time all 6 LED's DS1-DS6 on the ADII card should be on. Note: DS6 (XMIT DATA) LED will be slightly dimmer than the other 5. This is normal.

7.2.5 Both Green LED's DS1 and DS2, on the ISBD card, inside the fixture should be on.

7.2.6 Press the TEST button and hold it. You should hear the relays click and all LED's, with the exception of DS1 (ACTIVE 1) and DS2 (ONLINE 1) on the ADII card should go off.

7.2.7 Both Green LED's DS1 and DS2, on the ISBD card should remain on.

7.2.8 Release the TEST button, all LEDS should come back on.

7.2.9 Both Green LED's DS1 and DS2, on the ISBD card should still be on.

7.3 ISBD Testing

7.3.1 The IS200ISBDG1AAA can be tested using the above procedures.

7.3.2 With power removed, disconnect all cables and remove the safety shielding.

7.3.3 Replace the test ISBD card with UUT.

7.3.4 Replace shielding and cables then follow testing procedures listed above.

7.4 Post Testing Burn-in Required _x_ Yes ___ No

*7.5 ***TEST COMPLETE ****

8. Notes

8.1 None at this time?

9. Attachments

9.1 None at this time?