g GE Energy	**Functional Testing Specification**
Parts & Repair Services ***Louisville, KY***	**LOU-GED-246B2242AEG***

Test procedure for Genius Block I/O Network Control Card

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

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	Eric Rouse	11/2/2001
B	Transferred procedure from a general group to a specific single document. Also added asset numbers to section 5.	Jeffrey Barton	7/8/2010

PREPARED BY	REVIEWED BY	REVIEWED BY	QUALITY APPROVAL
Eric Rouse	Jeffrey Barton		Charlie Wade
DATE	**DATE**	**DATE**	**DATE**
11/2/2001	7/20/2010		7/31/2010

Test procedure for Genius Block I/O Network Control Card

1. SCOPE

1.1 This is a functional testing procedure for a 246B2242AEG* on the IOS Test System

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 or cracked
4.2.1.2 Terminal strips / connectors broken or cracked
4.2.1.3 Loose wires
4.2.1.4 Components visually damaged
4.2.1.5 Capacitors leaking
4.2.1.6 Solder joints damaged or cold
4.2.1.7 Circuit board burned or de-laminated
4.2.1.8 Printed wire runs 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	H188629	IOS Test System
1		Computer with IOS Test Software with Serial comm. to DS200DMCB board

6. Testing Process

6.1 Setup

6.1.1 Visually inspect to see if both cards are mated correctly

6.1.2 Setup SW1 as Diagram inside IOS Test Station designates.

1=closed
2=open
3=open
4=open
5=closed
6=open
7=open
8=closed

6.2 Install Unit in Test Fixture by connecting 5PL, 4PL and 3PL.

6.3 Power up IOS Test station and verify Geni 1 and Geni 2 illuminate and IOS displays show basic IOS and 10.0 sec countdown diag. screens

6.4 Testing Procedure

6.4.1 Execute IOSMENU icon on test computer by Dbl. Clicking on Icon labeled Iosmenu

6.4.2 Tab down to Genius / Run-time Mon. DMCB and hit return

6.4.3 IOS I/O Test Monitor screen will come up

6.4.4 Enter “3” for Test Genius Blocks

6.4.5 A listing of connected Genius Blocks should come up (0-31)

6.4.6 Enter “1” (Signifies IOS Station Drop # that sees our connected Genius Block at Address 1) hit return

6.4.7 To modify the I/O ports on Drop 1, use the return key to change its status.

6.4.8 Used left arrow key to move to next bit #2 and hit enter, the bit will change to a “1” on the screen and notice the yellow light on IOS fixture labeled “OUTPUT #1” will illuminate.

6.4.9 Left arrow to next bit and hit return, the bit will change to a “1”.

6.4.10 Continue thru all bits with bit #8 changing and illuminating Output #4 on IOS fixture.

6.4.11 Hitting Esc. Will return to Genius Blocks Listings screen

6.4.12 Hitting Esc. Again will take you back to main menu of step 6.4.2 and the IOS display will return to step 6.3 screen.

6.4.13 Esc. Will take you back to the main IOS Test menu

6.4.14 Turn off power to IOS and remove Genius Network Controller

6.5 ***TEST COMPLETE ***

7. Notes

7.1 None at this time.

8. Attachments

8.1 None at this time.