g GE Energy	**Functional Testing Specification**
Parts & Repair Services ***Louisville, KY***	**LOU-GED-IS200ERGTH1A**

Test Procedure for an IS200ERGTH1A EX2100 **Excitation Control Exciter Regulator Third-party Ground Detector Terminal board (ERGT).**

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

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release.	J. Francis	09/14/2015

PREPARED BY	REVIEWED BY	REVIEWED BY	QUALITY APPROVAL
J. Francis			L. Groves
DATE	**DATE**	**DATE**	**DATE**
09/14/2015			9/16/2015

1. SCOPE

This is a test procedure for an **IS200ERGTH1A EX2100** Excitation Control Exciter Regulator Third-party Ground Detector Terminal board (ERGT).

1. STANDARDS OF QUALITY

1.1 Refer to the current revision of the IPC-A-610 standard for workmanship standards.

2. APPLICABLE DOCUMENTS

2.1 The following document(s) shall form part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue shall apply.
2.1.1 Check board's electronic folder for more information.

3. ENGINEERING REQUIREMENTS

3.1 Equipment Cleaning
3.1.1 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.
3.2 Equipment Inspection
3.2.1 Equipment should be visually inspected for any defects prior to applying power. This inspection should include the following as a minimum:
3.2.1.1 Wires - broken, cracked, or loosely connected
3.2.1.2 Terminal strips / connectors - broken or cracked
3.2.1.3 Components - visually damaged
3.2.1.4 Capacitors - bloated or leaking
3.2.1.5 Solder joints - damaged or cold
3.2.1.6 Circuit board - burned or de-laminated
3.2.1.7 Printed wire runs / Traces - burned or damaged

4. EQUIPMENT REQUIRED

4.1 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)

5. TESTING PROCESS

5.1 Testing Procedure

Note: For testing Board Orientation is component side up, No Power Required to test.

5.1.1 Using Fluke 87 DMM (or Equivalent), set for Resistance function, check all of the following points for expected results listed in table below:

From:	To:	Expected Result:
TB1-1	J1-7	Continuity
TB1-2	J1-6	Continuity
TB1-3	J1-2	Continuity
TB1-4	J1-5	Continuity
TB1-4	TB2-2	Continuity
TB2-1	TB2-4	Continuity
TB2-1	C1 (side away from TB's)	Continuity
TB2-3	J1-8	Continuity
C1 (side closest to TB's)	E1	Continuity
E1	E2	Continuity
E1	E3	Continuity
E1	E4	Continuity

5.2 ***TEST COMPLETE ***

7. NOTES

7.1 None at this time.

8. ATTACHMENTS

8.1 None at this time.