g GE Energy	**Functional Testing Specification**
Parts & Repair Services ***Louisville, KY***	**LOU-GED-IC3600LIVF1**

Test Procedure for a IC3600LIVF1

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

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release, test was transferred from a GEDS Salem form to an electronic copy	D. Bush	3/8/2013
B			
C			

PREPARED BY	REVIEWED BY	REVIEWED BY	QUALITY APPROVAL
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DATE	**DATE**	**DATE**	**DATE**
3/8/2013	3/8/2013		3/11/2013

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 electronic file 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 the local documented procedures 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 Supplies (plus & minus)
1		IC3600 Rainbow Box

6. TESTING PROCESS

6.1 Testing Procedure

6.1.1 Apply 12VDC to connectors 27(+) and 51(-).

6.1.2 Measure voltage at circuit #1 input (connector 3) voltage should be approximately 6.3V.

6.1.3 Measure voltage at circuit #1 output (connector 4) voltage should be approximately 0.0V.

6.1.4 Ground the input connector (3) to ground (connector#1) and verify output connector (4) goes high to approximately 6.2VDC.

6.1.5 Card has 16 identical circuits that need to be tested, please proceed thru all 16 circuits.

Circuit	In	Out
1	3	4
2	7	8
3	9	10
4	11	12
5	13	14
6	17	18
7	19	20
8	21	22
9	31	32
10	33	34
11	37	38
12	39	40
13	41	42
14	43	44
15	47	48
16	49	50

6.2 ***TEST COMPLETE ***

7. NOTES

7.1 None at this time.