g GE Energy	**Functional Testing Specification**
Parts & Repair Services ***Louisville, KY***	**LOU-GED-151X1207DG06SA1**

Test Procedure for a EX2100 Blower assembly

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

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	G. Chandler	1/24/2013
B			
C			

PREPARED BY	REVIEWED BY	REVIEWED BY	QUALITY APPROVAL
G. Chandler			Charlie Wade
DATE	**DATE**	**DATE**	**DATE**
1/24/2013			1/28/2013

1. SCOPE

1.1 This is a functional testing procedure for a EX2100 Blower assembly

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		+12VDC Power Supply
1		120VAC Variac
1		Oscilloscope
1		1K Ohm resistor

6. Modifications/Upgrades

6.1 None at this time.

7. Testing Process

7.1 Setup

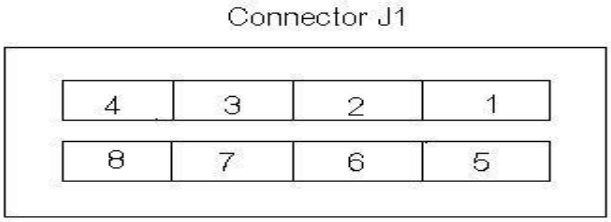
7.1.1 Connect +12VDC to pin1, with common to pin2, to the connector J1.

7.1.2 Connect +12VDC through a 1K ohm resistor to pin 5 of the connector J1.

7.1.3 Connect an oscilloscope across the resistor.

7.1.4 Apply 120VAC between pins 3 and 7 of the connector.

7.1.5 Verify that fan operates and a 12V pulse on the scope. Frequency depends on the speed of the fan.



7.1.6 Connect J1

7.2 ***TEST COMPLETE ***

8. Notes

8.1 None at this time.