



GE Energy

Functional Testing Specification

Parts & Repair Services
Louisville, KY

LOU-WIND-TEST

Test Procedure for a preliminary testing GE Wind boards

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

k	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release of the preliminary testing of GE Wind cards	R. Johnson	3/14/2013
B	Modified instruction to handle all cards	C. Wade	4/16/2013
C			

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PREPARED BY R. Johnson	REVIEWED BY	REVIEWED BY	QUALITY APPROVAL <i>Charlie Wade</i>
DATE 3/14/2013	DATE	DATE	DATE 3/14/2013

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1. SCOPE

1.1 This is a preliminary testing for GE Wind cards.

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 Inspection

4.1.1 Equipment should be visually inspected for any defects prior to applying power. This inspection should include the following as a minimum:

4.1.1.1 Wires - broken, cracked, or loosely connected

4.1.1.2 Terminal strips / connectors - broken or cracked

4.1.1.3 Components - visually damaged

4.1.1.4 Capacitors - bloated or leaking

4.1.1.5 Solder joints - damaged or cold

4.1.1.6 Circuit board - burned or de-laminated

4.1.1.7 Printed wire runs / Traces - burned or damaged

4.1.2 **Pictures shall be taken of all noticeable defects and saved to the appropriate directory.**

5. EQUIPMENT REQUIRED

5.1 Use the equipment called out in each individual work instruction specific to that unit to perform the required test. Equipment may be substituted provided that all accuracy's and test ratios are equivalent or better.

6. Testing Process

6.1 Setup

6.1.1 Cards shall be entered into SAP under the blanket PO provided by GE Wind. Each line item shall represent the model number of the unit whose failure analysis is to be done.
The quantity shall be entered into the text box of that line item.

6.1.2 Servicing information shall be entered into the excel spreadsheet

6.1.3 LOM will direct receiver to bring assemblies that need testing to the proper technician.

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6.2 Failure Analysis Testing

6.2.1 Technician will open the Excel spreadsheet and enter board information from box, tag, or any notes attached to unit.

6.2.1.1 There are two directories that will be used and they are located in the following directory; "Shopfloor\Louisville Service Center\GE Wind"

6.2.1.2 Use the Failure Analysis directory for failure information and Photo directory to download pictures of all defects found. Store photos by serial number and picture number; see example J72V0FE#1 for the first picture, J72V0FE#2 for the second picture, etc. If directory for specific card is not there created it.

6.2.2 Technician shall pull any special power point presentation or documentation from GEDS Salem that focus of previous defects, if available. They will use that to assist them will look over entire card for any defect condition.

6.2.3 If a visible defect shall be found, a picture must be taken of the defect.

6.2.4 If no defect condition exists unit will be tested on the appropriate test system. If no test system is available, then static check will be performed on card.

6.2.5 Once all data has been entered into the excel spreadsheet, print out label and affix to card. (Until we can engineer this change, the technician will be required to write on the edge of the box; model number, serial number, and defect condition, (Repairable, NPF, & BER).

6.2.6 Cards will be placed back into the appropriate bin for storage until it is determined what is to be done with them. This should take less than 45 days. Once this time has expired, card should be moved back into legacy or sent back to Olive Branch.

6.2.7 Complete Excel spreadsheet and upload and photos on units.

6.2.8 Place Box back on to cart. Once done have someone come get the completed units and return to warehouse.

6.3 ***TEST COMPLETE ***

7. Notes

7.1 None at this time.

8. Attachments

8.1 None at this time