



GE Energy

Functional Testing Specification

*Parts & Repair Services
Louisville, KY*

LOU-GED-TopBox

Test Instruction for burning specific cards in Top Box

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A	Initial release	S. Cash	12-20-2013
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DATE 12/20/2013	DATE	DATE	DATE 12/20/2013

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Burn in rack for wind top Box and Pitch Box boards

1. SCOPE

- 1.1 This is a burn in rack for a top box and a pitch box, which includes WETA, WETB, WETC, Battery Charger, WEPAH1A, AEPCH1B, and AEPA board(s).

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 the 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	H190119	Top Box
1	H190120	AEPA Roll around Tester with PC

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6. TESTING PROCESS

6.1 Setup

6.1.1 Install UUT into the top box.

6.1.1 If communication with UUT is desired find the AEPA roll around test fixture and connect via Ethernet. Setup toolbox for desired system.

6.2 Testing Procedure

6.2.1 Power up top box with the red mushroom switch on the top of the cabinet door.

6.2.2 Verify UUT powers up correctly. Check board(s) LED to see if they have powered up.

6.2.3 If communication with board is needed you must use Toolbox. Knowledge of the use and setup of Toolbox is required and cannot be taught through this test procedure.

6.2.4 Burn in board for desired time and power down Top Box when finished.

6.3 *****TEST COMPLETE *****

7. NOTES

7.1 This fixture should be used for burn in and troubleshooting purposes not for testing.

8. ATTACHEMENTS

8.1 None at this time.