



GE Energy

Functional Testing Specification

*Parts & Repair Services
Louisville, KY*

LOU-TOFFEE-IS220PVIBH1

Test Procedure for cards tested on the Toffee System

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REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	E Rouse	02/23/2010
B	Transferred information to specific test format	J. Hardin	12/17/2012
C	Added Functional Testing and Burn-In.	J.Francis	12/15/2017

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PREPARED BY Eric Rouse	REVIEWED BY J. Hardin	REVIEWED BY	QUALITY APPROVAL <i>Charlie Wade</i>
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Functional test procedure for equipment tested on the Toffee Test system**1. SCOPE**

- 1.1 This is a functional testing procedure for the Toffee Test System for testing various circuit boards. A list of those circuit boards can be found on the Toffee Test System.

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.

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	H188818	Toffee Test System #14
1	H188883	PVIB Fixture
	H188922	Mark Vie Simplex Test Rack

6. TESTING PROCESS

6.1 Setup

- 6.1.1 Install fixture onto TOFFEE test System.
- 6.1.2 Install Unit Under Test into proper test fixture.

6.2 Testing Procedure

- 6.2.1 Load appropriate test program and follow instructions on screen.

6.3 Functional Testing

- 6.3.1 Install unit into Mark Vie Simplex Test rack on appropriate terminal board.
- 6.3.2 Toolbox is setup to automatically configure and start using PAC Module. See note 7.1 for any questions.

6.4 Burn-In

- 6.4.1 Let unit run in test rack for 48 hours.
- 6.4.2 Testing is complete when unit successfully runs in test rack with no errors for 48 hours.

6.5 ***TEST COMPLETE***

7. NOTES

- 7.1 Using this test procedure assumes you are familiar with ToolboxST. If assistance is needed, a knowledgeable person will be willing to assist.

8. ATTACHEMENTS

- 8.1 Picture of the Toffee Test System

