



GE Energy

Functional Testing Specification

*Parts & Repair Services
Louisville, KY*

LOU-TOFFEE-IS220PTCC

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	Header change for specific model	J. Hardin	2/28/2013
C	Added Functional Testing and Burn-In.	J.Francis	12/15/2017

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DATE 02/23/2010	DATE 02/28/2013	DATE	DATE 02/23/2010

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	H188880	PTCC Fixture
1	H190121	Mark Vie TMR Test Rack

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6. TESTING PROCESS

6.1 Setup

6.1.1 Install fixture (H188880) onto TOFFEE test System.

6.1.2 Install Unit Under Test into PTCC 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 TMR Test rack on appropriate terminal board.

6.3.2 Toolbox is setup to automatically configure and start using PAC Module. See note 7.2 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

6.6 ***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

