



GE Energy

## Functional Testing Specification

Parts & Repair Services  
Louisville, KY

LOU-TOFFEE-IS220PTURH1

### Test Procedure for cards tested on the Toffee System

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

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	E Rouse	02/23/2010
B	Transferred procedure from a general group to a specific single document. Also added asset numbers to section 5.	F. Howard	06/28/2010
C	Added Functional Testing and Burn-In.	J.Francis	12/15/2017

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## Functional test procedure for an IS220PTURH1A tested on the Toffee Test system

### 1. SCOPE

1.1 This is a functional testing procedure for the IS220PTURH1A Turbine IO Pack.

### 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 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	H188859	Toffee test fixture for IS220PTURH1A
1	H190121	Mark Vie TMR Test Rack

LOU-TOFFEE-IS220PTURH1	 <p><b>GE Energy</b> Part &amp; Repair Services Louisville, KY</p>	Page 3 of 5
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## 6. TESTING PROCESS

### 6.1 Setup

6.1.1 Install IS220PTUR fixture H188859 onto TOFFEE test System.

6.1.2 Install Unit Under Test into test fixture.

### 6.2 TOFFEE Testing Procedure

6.2.1 Double click on the OPERATOR INTERFACE icon on screen.

6.2.2 On the user name dialogue box, choose either administrator or technician. If administrator password is NGTF2008\*, technician password is KISS, case sensitive. The next window should say configuration management and you should always click on no.

6.2.3 Screen will flicker and box marked single pass will be highlighted. Click on it and it should put up another dialogue box that says Orange book is old. Click o.k. If Orange book needs to be updated, there is an icon for that but I would let Paul or Eric do it until user is familiar with system.

6.2.4 The next dialogue box should say select DUT (device under test) . Detected fixture should have the model number being tested and family name should say MVle. Click the drop down box DUT and your model number should be the only option. Select it and it should appear in the DUT model number. Put your revision level of unit being tested in DUT REV and click ok.

6.2.5 A delay dialogue box appears, counts down and then asks for a serial number, enter 14 and check the boxes marked RUN UPLOADS and DELETED LOGS. Click ok. If you logged on as an administrator, you will not get this dialogue box. The test will automatically run these.

6.2.6 A delay dialog box appears and counts down, do not stop it and then system runs test. You will get either a pass or fail message.

### 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.

LOU-TOFFEE-IS220PTURH1	 <b>GE Energy</b> <i>Part &amp; Repair Services</i> <i>Louisville, KY</i>	Page 4 of 5
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#### 6.5 \*\*\*TEST COMPLETE\*\*\*

### 7. NOTES

- 7.1 Changes to the electronic Toffee test are recorded in the [Software Control Database](#)
- 7.2 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