g GE Energy	**Functional Testing Specification**
Inspection & Repair Services ***Louisville, KY***	**LOU-GEF-JLRI1**

Test Procedure for JLRI1 Printed Circuit Board

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Functional test procedure for JLRI Printed Circuit Board

1. SCOPE

1.1 This specification provides the Engineering Requirements for testing the JLRI1 and JLRI1A printed circuit board 44A294543-G01

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 44C286271 Schematics

4. ENGINEERING REQUIREMENTS

4.1 Description

4.1.1 Custom Relay Interface board for 1050H Control.

4.2 Equipment Cleaning

4.2.1 Equipment should be clean and free of debris prior to applying power unless performing an initial check. Refer to the local documented procedures for cleaning guidelines.

4.3 Equipment Inspection

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

4.3.1.1 Wires broken or cracked
4.3.1.2 Terminal strips / connectors broken or cracked
4.3.1.3 Loose wires
4.3.1.4 Components visually damaged
4.3.1.5 Capacitors leaking
4.3.1.6 Solder joints damaged or cold
4.3.1.7 Circuit board burned or de-laminated
4.3.1.8 Printed wire runs burned or damaged

EQUIPMENT REQUIRED

4.4 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	Fluke	Multimeter
1	DC Power Supply	+20VDC

5. TESTING PROCESS

5.1.1 Bench Test
Test each Reed Relay
5.1.2 Set Power Supply to +20V (turn Off)
5.1.3 Connect P.S. lead to coil (K1 connect to D1, K2 connect to D2, etc.)
5.1.4 Connect Meter (set for Ohm reading) across relay contacts. Note: some relays have multiple contacts and poles.
5.1.5 Turn on power supply meter should read less then 1 Ohm.
5.1.5.1 Repeat test for each relay.

5.1.6 ***TEST COMPLETE ***

6. REFERENCES

6.1 None at this time