



GE Energy

Functional Testing Specification

Parts & Repair Services
Louisville, KY

LOU-GED-DS3800NTDG

Test Procedure for an DS3800NTDG card

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1. SCOPE

1.1 This is a functional testing procedure for a DS3800NTDG Card.

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, cracked, or loosely connected

4.2.1.2 Terminal strips / connectors - broken or cracked

4.2.1.3 Components - visually damaged

4.2.1.4 Capacitors - bloated or leaking

4.2.1.5 Solder joints - damaged or cold

4.2.1.6 Circuit board - burned or de-laminated

4.2.1.7 Printed wire runs / Traces - 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		Fluke 87 DMM (or Equivalent)
1		115VAC Variac

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6. TESTING PROCESS

6.1 Testing Procedure

- 6.1.1 Apply 0 VAC from the variac to connectors 1N and 2N of the DS3800NTDG board.
- 6.1.2 Slowly turn the dial on the variac until the neon light on the DS3800NTDG board just begins to light.
- 6.1.3 Verify the voltage across the neon bulb is no greater than 95 VAC.
- 6.1.4 Reduce the voltage back to 0 VAC and remove the variac from the board.
- 6.1.5 Verify 1 ohm or less between connectors 1N and TP1.

6.2 **TEST COMPLETE *****

7. NOTES

- 7.1 None at this time.

8. ATTACHMENTS

- 8.1 None at this time.