



GE Energy

Functional Testing Specification

*Parts & Repair Services
Louisville, KY*

LOU-BENT-BACKPLANE

Test Procedure for a Bentley Nevada Backplane card 4 thru 14 slot

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DATE 10/10/2012	DATE	DATE	DATE 10/10/2012

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1. SCOPE

1.1 This is a functional testing procedure for a Bentley Nevada Backplane 4 thru 14 slot.

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 Blue Binders next to equipment for BOMs, drawings, etc.

3.1.2 Check board's electronic folder for more information (working to scan data into system - on going and not yet completed)

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	140700	Bently 3300 Test Station

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6. Testing Process

- 6.1.1 Remove screws at top rear of rack
- 6.1.2 Loosen screws at top front of rack
- 6.1.3 Install back plane
- 6.1.4 Build test for power supply, system monitor, and how many slot checkers you need
(depends on backplane)
- 6.1.5 Run Test

6.2 *TEST COMPLETE *****

7. Notes

- 7.1 None at this time.

8. Attachments

- 8.1 None at this time.